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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142
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Query Match      78.8%   Score 78;   DB 11;   Length 16;
Best Local Similarity 75.0%   Pred. No. 0.00012;
Matches 12;   Conservative 2;   Mismatches 2;   Indels 0;   Gaps 0;
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QY      1 DWVCEFDKLOWVCNVL 16
      |||||:|:|:|
Db      1 DWVCEWLKMQWACNVL 16
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Search completed: September 8, 2004, 15:58:35
Job time : 43.85 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds  
(without alignments)  
62.106 Million cell updates/sec

Title: US-09-825-517A-135  
Perfect score: 99  
Sequence: 1 DWVCEFDKLOWVNCVL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Parents AA:  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PTCUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50	50.5	21	4	US-09-337-227C-27
2	50	50.5	21	4	US-09-723-251A-27
3	45	45.5	20	1	US-08-484-135-62
4	45	45.5	20	1	US-08-484-135-62
5	45	45.5	20	2	US-08-484-635-37
6	45	45.5	20	2	US-08-827-570-78
7	44	44.4	20	1	US-08-484-135-78
8	44	44.4	20	1	US-08-484-635-40
9	44	44.4	20	2	US-08-484-631-40
10	44	44.4	20	2	US-08-827-570-40
11	44	44.4	23	1	US-08-484-635-56
12	44	44.4	23	2	US-08-484-631-56
13	44	44.4	23	2	US-08-827-570-56
14	43	43.4	18	3	US-09-052-888-97
15	43	43.4	18	4	US-09-723-890-97
16	43	43.4	18	4	US-09-723-901-97
17	43	43.4	18	4	US-09-723-547-97
18	43	43.4	18	4	US-09-724-127-97
19	43	43.4	18	4	US-09-723-931-97
20	43	43.4	18	4	US-09-723-873-97
21	43	43.4	18	4	US-09-724-114-97
22	43	43.4	18	4	US-09-723-913-97
23	43	43.4	24	1	US-08-484-635-116
24	43	43.4	24	2	US-08-484-631-116
25	43	43.4	24	2	US-08-827-570-116
26	42	42.4	20	1	US-08-484-135-10
27	42	42.4	20	1	US-08-484-135-76

Sequence 10, Appl  
Sequence 10, Appl  
Sequence 10, Appl  
Sequence 4, Appl  
Sequence 90, Appl  
Sequence 1029, Ap  
Sequence 181, App  
Sequence 181, App  
Sequence 181, App  
Sequence 92, Appl  
Sequence 92, Appl  
Sequence 92, Appl  
Sequence 5285, Ap  
Sequence 20, Appl  
Sequence 32, Appl  
Sequence 20, Appl  
Sequence 12, Appl  
Sequence 12, Appl

ALIGNMENTS

RESULT 1  
US-09-337-227C-27  
; Sequence 27, Application US/09337227C  
; Patent No. 6420518  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Yvonne May-Yee  
; APPLICANT: Clark, Ross G.  
; APPLICANT: Cochran, Andrea G.  
; APPLICANT: Lowman, Henry B.  
; APPLICANT: Robinson, Iain C.A.F.  
; APPLICANT: Skelton, Nicholas J.  
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES  
; FILE REFERENCE: PI071P2 rev  
; CURRENT APPLICATION NUMBER: US/09/337,227C  
; CURRENT FILING DATE: 1999-06-22  
; PRIOR APPLICATION NUMBER: US 09/052,888  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: US 08/825,852  
; PRIOR FILING DATE: 1997-04-04  
; NUMBER OF SEQ ID NOS: 51  
; SEQ ID NO 27  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Sequence is synthesized  
; Patent No. 6420518  
US-09-337-227C-27

Query Match 50.5%; Score 50; DB 4; Length 21;  
Best Local Similarity 58.3%; Pred. No. 0.24;  
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
Qy 2 WVCEFDKLOWVC 13  
||| |||:  
Db 3 WVCRAGPLQWLC 14

RESULT 2  
US-09-723-251A-27  
; Sequence 27, Application US/09723251A  
; Patent No. 6608028  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Yvonne May-Yee  
; APPLICANT: Clark, Ross G.  
; APPLICANT: Cochran, Andrea G.  
; APPLICANT: Lowman, Henry B.  
; APPLICANT: Robinson, Iain C.A.F.  
; APPLICANT: Skelton, Nicholas J.  
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

FILE REFERENCE: P1071P2C1.2REV  
 CURRENT APPLICATION NUMBER: US/09/723,251A  
 PRIOR FILING DATE: 2000-11-27  
 PRIOR APPLICATION NUMBER: US 09/337,227  
 PRIOR FILING DATE: 1999-06-22  
 PRIOR APPLICATION NUMBER: US 08/825,852  
 PRIOR FILING DATE: 1997-04-04  
 NUMBER OF SEQ ID NOS: 51  
 SEQ ID NO 27  
 LENGTH: 21  
 TYPE: PRT  
 ORGANISM: Artificial sequence  
 FEATURE:  
 OTHER INFORMATION: Sequence is synthesized  
 Patent No. 6608028  
 US-09-723-251A-27

Query Match 50.5%; Score 50; DB 4; Length 21;  
 Best Local Similarity 58.3%; Pred. No. 0.24;  
 Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCEFDKLOWVC 13  
 Db 3 WVCRAQLQWLC 14

RESULT 3  
 US-08-484-135-62  
 ; Sequence 62, Application US/08484135  
 ; Patent No. 5767078  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Johnson, Dana L  
 ; APPLICANT: Zivin, Robert A  
 ; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Frank S. Digiglio  
 ; STREET: 400 Garden City Plaza  
 ; CITY: Garden City  
 ; STATE: New York  
 ; COUNTRY: U.S.A.  
 ; ZIP: 11530  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/484,135  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 514  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Digiglio, Frank S  
 ; REGISTRATION NUMBER: 31,346  
 ; REFERENCE/DOCKET NUMBER: 9594  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (516) 742-4343  
 ; TELEFAX: (516) 742-4366  
 ; INFORMATION FOR SEQ ID NO: 62:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; US-08-484-135-62

Query Match 45.5%; Score 45; DB 1; Length 20;  
 Best Local Similarity 53.8%; Pred. No. 1.3;  
 Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEFDKLOWVC 13  
 Db 3 WVCRAQLQWLC 14

Db 3 DYNCRFGPLTWVC 15

RESULT 4  
 US-08-484-635-37  
 ; Sequence 37, Application US/08484635  
 ; Patent No. 5773569  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wrighton, Nicholas C.  
 ; APPLICANT: Dower, William J.  
 ; APPLICANT: Chang, Ray S.  
 ; APPLICANT: Kashyap, Arun K.  
 ; APPLICANT: Jolliffe, Linda K.  
 ; APPLICANT: Johnson, Dana  
 ; APPLICANT: Mulcany, Linda  
 ; TITLE OF INVENTION: Compounds and Peptides That Bind to the  
 ; TITLE OF INVENTION: Erythropoietin Receptor  
 ; NUMBER OF SEQUENCES: 259  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Townsend and Townsend and Crew  
 ; STREET: One Market Plaza, Steuart Street Tower  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94105-1492  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/484,635  
 ; FILING DATE: 07-JUN-1995  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/155,940  
 ; FILING DATE: 19-NOV-1993  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Garrett-Wackowski, Eugenia  
 ; REGISTRATION NUMBER: 37,330  
 ; REFERENCE/DOCKET NUMBER: 16528A-43-1-1  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415) 543-9600  
 ; TELEFAX: (415) 543-5043  
 ; INFORMATION FOR SEQ ID NO: 37:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS:  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; US-08-484-635-37

Query Match 45.5%; Score 45; DB 1; Length 20;  
 Best Local Similarity 53.8%; Pred. No. 1.3;  
 Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEFDKLOWVC 13  
 Db 3 DYNCRFGPLTWVC 15

RESULT 5  
 US-08-484-631-37  
 ; Sequence 37, Application US/08484631  
 ; Patent No. 5830851  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wrighton, Nicholas C.  
 ; APPLICANT: Dower, William J.  
 ; APPLICANT: Chang, Ray S.  
 ; APPLICANT: Kashyap, Arun K.  
 ; APPLICANT: Jolliffe, Linda K.  
 ; APPLICANT: Johnson, Dana



```
;
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-631-37

Query Match 45.5%; Score 45; DB 2; Length 20;
Best Local Similarity 53.8%; Pred. No. 1.3;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCFEPKLOWVC 13
|:|:|:|:|
Db 3 DYNCRFGTLWVC 15

RESULT 6
US-08-827-570-37
; Sequence 37, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-827-570-37

Query Match 45.5%; Score 45; DB 2; Length 20;
Best Local Similarity 53.8%; Pred. No. 1.3;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCFEPKLOWVC 13
|:|:|:|:|
Db 3 DYNCRFGTLWVC 15

RESULT 7
US-08-484-135-78
; Sequence 78, Application US/08484135
; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. DiGiglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A..
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DiGiglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9594
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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;  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-484-135-78

Query Match 44.4%; Score 44; DB 1; Length 20;  
Best Local Similarity 46.2%; Pred. No. 1.9;  
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13  
|:|:|:|:|:  
Db 3 DYVCRMGPMTWVC 15

## RESULT 8

US-08-484-635-40  
; Sequence 40, Application US/08484635  
; Patent No. 5773569

## GENERAL INFORMATION:

; APPLICANT: Wrighton, Nicholas C.  
; APPLICANT: Dower, William J.  
; APPLICANT: Chang, Ray S.  
; APPLICANT: Kashyap, Arun K.  
; APPLICANT: Jolliffe, Linda K.  
; APPLICANT: Johnson, Dana  
; APPLICANT: Mulcahy, Linda

; TITLE OF INVENTION: Compounds and Peptides That Bind to the  
; TITLE OF INVENTION: Erythropoietin Receptor

; NUMBER OF SEQUENCES: 259

## CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew  
; STREET: One Market Plaza, Steuart Street Tower  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA

; ZIP: 94105-1492

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/484,635

; FILING DATE: 07-JUN-1995

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/155,940

; FILING DATE: 19-NOV-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Garrett-Wackowski, Eugenia

; REGISTRATION NUMBER: 37,330

; REFERENCE/DOCKET NUMBER: 16528A-43-1-1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 543-9600

; TELEFAX: (415) 543-5043

; INFORMATION FOR SEQ ID NO: 40:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-484-635-40

Query Match 44.4%; Score 44; DB 1; Length 20;  
Best Local Similarity 46.2%; Pred. No. 1.9;  
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13  
|:|:|:|:|:  
Db 3 DYVCRMGPMTWVC 15

## RESULT 9

US-08-484-631-40  
; Sequence 40, Application US/08484631  
; Patent No. 5830851

## GENERAL INFORMATION:

; APPLICANT: Wrighton, Nicholas C.

; APPLICANT: Dower, William J.

; APPLICANT: Chang, Ray S.

; APPLICANT: Kashyap, Arun K.

; APPLICANT: Jolliffe, Linda K.

; APPLICANT: Johnson, Dana

; APPLICANT: Mulcahy, Linda

; TITLE OF INVENTION: Compounds and Peptides That Bind to the

; TITLE OF INVENTION: Erythropoietin Receptor

; NUMBER OF SEQUENCES: 259

## CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend and Crew

; STREET: One Market Plaza, Steuart Street Tower

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94105-1492

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/484,631

; FILING DATE: 07-JUN-1995

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/155,940

; FILING DATE: 19-NOV-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Garrett-Wackowski, Eugenia

; REGISTRATION NUMBER: 37,330

; REFERENCE/DOCKET NUMBER: 16528A-43-1-2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 543-9600

; TELEFAX: (415) 543-5043

; INFORMATION FOR SEQ ID NO: 40:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-484-631-40

Query Match 44.4%; Score 44; DB 2; Length 20;  
Best Local Similarity 46.2%; Pred. No. 1.9;  
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVC 13  
|:|:|:|:|:  
Db 3 DYVCRMGPMTWVC 15

## RESULT 10

US-08-827-570-40

; Sequence 40, Application US/08827570

; Patent No. 5986047

## GENERAL INFORMATION:

; APPLICANT: Wrighton, Nicholas C.

; APPLICANT: Dower, William J.

; APPLICANT: Chang, Ray S.

; APPLICANT: Kashyap, Arun K.

; APPLICANT: Jolliffe, Linda K.

; APPLICANT: Johnson, Dana

; APPLICANT: Mulcahy, Linda

; TITLE OF INVENTION: Compounds and Peptides That Bind to the

; TITLE OF INVENTION: Erythropoietin Receptor

; NUMBER OF SEQUENCES: 259

```
;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-827-570-40

Query Match 44.4%; Score 44; DB 2; Length 20;
Best Local Similarity 46.2%; Pred. No. 1.9;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCFDKLOWVC 13
Db 3 DYVCRMGPMWVC 15

RESULT 11
US-08-484-635-56
; Sequence 56, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashvap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
```

```
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-635-56

Query Match 44.4%; Score 44; DB 1; Length 23;
Best Local Similarity 46.2%; Pred. No. 2.2;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCFDKLOWVC 13
Db 3 DYVCRMGPMWVC 15

RESULT 12
US-08-484-631-56
; Sequence 56, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashvap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
```



;; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: WinPatIn (Genentech)  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/723,890  
;; FILING DATE: 28-Mar-1998  
;; CLASSIFICATION: 514  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US/09/052,888  
;; FILING DATE: 31-Mar-1998  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Hasak, Janet E.  
;; REGISTRATION NUMBER: 28,616  
;; REFERENCE/DOCKET NUMBER: P1071P1  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 650/225-1896  
;; TELEFAX: 650/952-9881  
;; INFORMATION FOR SEQ ID NO: 97:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 18 amino acids  
;; TYPE: Amino Acid  
;; TOPOLOGY: Linear  
;; SEQUENCE DESCRIPTION: SEQ ID NO: 97:  
US-09-723-890-97

Query Match 43.4%; Score 43; DB 4; Length 18;  
Best Local Similarity 40.0%; Pred. No. 2.4;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEFDKLOWVCNV 15  
Db 2 EMVCRAGPLWLCEI 16

Search completed: September 8, 2004, 14:31:48  
Job time : 13.3 secs



GenCore version 5.1.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds  
(without alignments)  
114.961 Million cell updates/sec

Title: US-09-825-517A-134  
Perfect score: 109  
Sequence: 1 DWICNLFKNQWFCDAW 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues 1298764  
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	109	100.0	16	11	US-09-825-517A-57
2	109	100.0	16	11	US-09-825-517A-134
3	104	95.4	16	11	US-09-825-517A-58
4	103	94.5	16	11	US-09-825-517A-53
5	99	90.8	16	11	US-09-825-517A-119
6	98	89.9	16	11	US-09-825-517A-47
7	97	89.0	16	11	US-09-825-517A-81
8	94	86.2	16	11	US-09-825-517A-39
9	94	86.2	16	11	US-09-825-517A-45
10	94	86.2	16	11	US-09-825-517A-48
11	94	86.2	16	11	US-09-825-517A-64
12	94	86.2	16	11	US-09-825-517A-77
13	94	86.2	16	11	US-09-825-517A-121
14	94	86.2	16	11	US-09-825-517A-131
15	93	85.3	16	11	US-09-825-517A-38

16	93	85.3	16	11	US-09-825-517A-42	Sequence 42, Appl
17	93	85.3	16	11	US-09-825-517A-52	Sequence 52, Appl
18	93	85.3	16	11	US-09-825-517A-62	Sequence 62, Appl
19	93	85.3	16	11	US-09-825-517A-73	Sequence 73, Appl
20	93	85.3	16	11	US-09-825-517A-74	Sequence 74, Appl
21	93	85.3	16	11	US-09-825-517A-83	Sequence 83, Appl
22	93	85.3	16	11	US-09-825-517A-120	Sequence 120, Appl
23	93	85.3	16	11	US-09-825-517A-124	Sequence 124, Appl
24	93	85.3	16	11	US-09-825-517A-129	Sequence 129, Appl
25	93	85.3	16	11	US-09-825-517A-136	Sequence 136, Appl
26	93	85.3	16	11	US-09-825-517A-145	Sequence 145, Appl
27	92	84.4	16	11	US-09-825-517A-79	Sequence 79, Appl
28	91	83.5	16	11	US-09-825-517A-37	Sequence 37, Appl
29	91	83.5	16	11	US-09-825-517A-43	Sequence 43, Appl
30	91	83.5	16	11	US-09-825-517A-46	Sequence 46, Appl
31	91	83.5	16	11	US-09-825-517A-84	Sequence 84, Appl
32	91	83.5	16	11	US-09-825-517A-132	Sequence 132, Appl
33	89	81.7	16	11	US-09-825-517A-40	Sequence 40, Appl
34	89	81.7	16	11	US-09-825-517A-69	Sequence 69, Appl
35	89	81.7	16	11	US-09-825-517A-71	Sequence 71, Appl
36	89	81.7	16	11	US-09-825-517A-98	Sequence 98, Appl
37	89	81.7	16	11	US-09-825-517A-108	Sequence 108, Appl
38	88	80.7	16	11	US-09-825-517A-41	Sequence 41, Appl
39	88	80.7	16	11	US-09-825-517A-50	Sequence 50, Appl
40	88	80.7	16	11	US-09-825-517A-61	Sequence 61, Appl
41	88	80.7	16	11	US-09-825-517A-66	Sequence 66, Appl
42	88	80.7	16	11	US-09-825-517A-89	Sequence 89, Appl
43	88	80.7	16	11	US-09-825-517A-92	Sequence 92, Appl
44	88	80.7	16	11	US-09-825-517A-99	Sequence 99, Appl
45	88	80.7	16	11	US-09-825-517A-128	Sequence 128, Appl

## ALIGNMENTS

RESULT 1  
US-09-825-517A-57  
; Sequence 57, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Isaac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825.517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 57  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-57

Query Match 100.0% Score 109; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 5.9e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDAW 16  
| | | | | | | | | | | | | | | |  
Db 1 DWICNLFKNQWFCDAW 16

RESULT 2  
US-09-825-517A-134  
; Sequence 134, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 134
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-134
```

```
Query Match 100.0%; Score 109; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
```

```
RESULT 3
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58
```

```
Query Match 95.4%; Score 104; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.8e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
```

```
RESULT 4
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53
```

```
Query Match 94.5%; Score 103; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.7e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
```

```
RESULT 5
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119
```

```
Query Match 90.8%; Score 99; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWICNLFKNQWFCDAW 16
||:|||||
Db 1 DWICNLFKNQWFCDAW 16
```

```
RESULT 6
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: PRT
```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match      89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDA 15
DB 1 DWICNLFKNQWFCDA 15

RESULT 7
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match      89.0%; Score 97; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 2.4e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDA 15
DB 1 DWICNLFKNQWFCDA 15

RESULT 8
US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCD 14
DB 1 DWICNLFKNQWFCD 14

RESULT 9
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCD 14
DB 1 DWICNLFKNQWFCD 14

RESULT 10
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCD 14
DB 1 DWICNLFKNQWFCD 14

RESULT 10
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCD 14
DB 1 DWICNLFKNQWFCD 14
```

```

RESULT 11
US-09-825-517A-64
; Sequence 64, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-64

```

```

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 5.9e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCDA 15
Db 1 DWICNLFKNQWFCDA 15

```

```

RESULT 12
US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

```

```

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 5.9e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCDA 15
Db 1 DWICNLFKNQWFCDS 15

```

```

RESULT 13
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

```

```

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

```

```

RESULT 14
US-09-825-517A-131
; Sequence 131, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 131
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-131

```

```

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCD 14
Db 1 DWICNLFKNQWFCD 14

```

```

RESULT 15
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38
```

```
Query Match      85.3%   Score 93;   DB 11;   Length 16;
Best Local Similarity 92.9%   Pred. No. 8.1e-06;
Matches 13;   Conservative 1;   Mismatches 0;   Indels 0;   Gaps 0;
```

```
QY      1 DWICNLFKNQWFC D 14
      ||:|||||
Db      1 DWVCNLFKNQWFC D 14
```

```
Search completed: September 8, 2004, 15:58:35
Job time : 43.85 secs
```



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds  
(without alignments)  
62.106 Million cell updates/sec

Title: US-09-825-517A-134  
Perfect score: 109  
Sequence: 1 DWICNLFKNQWFCDAW 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46.5	42.7	612	4	US-09-252-991A-17516
2	46	42.2	478	4	US-09-137-223A-2
3	45	41.3	215	3	US-09-131-028A-3
4	45	41.3	215	3	US-09-131-028A-13
5	44.5	40.8	220	4	US-09-198-452A-941
6	44	40.4	319	4	US-09-328-352-6404
7	44	40.4	1025	2	US-08-530-792D-23
8	44	40.4	1026	2	US-08-530-792D-22
9	43	39.4	21	4	US-09-337-227C-27
10	43	39.4	21	4	US-09-723-251A-27
11	43	39.4	480	2	US-08-828-488-8
12	43	39.4	480	4	US-09-299-689A-8
13	43	39.4	480	4	US-09-702-705-336
14	43	39.4	480	4	US-09-736-457-336
15	43	39.4	480	4	US-09-614-124B-336
16	43	39.4	480	4	US-09-671-325-336
17	43	39.4	480	4	US-09-589-184-336
18	42	38.5	582	3	US-08-194-560-2
19	41.5	38.1	190	1	US-08-816-241-1
20	41.5	38.1	190	3	US-09-128-395-1
21	41.5	38.1	542	4	US-08-939-303-6
22	41.5	38.1	542	4	US-09-849-180-6
23	41.5	38.1	542	4	US-09-356-643B-4
24	41	37.6	498	1	US-08-357-598-9
25	41	37.6	498	2	US-09-003-289-9
26	41	37.6	498	5	PCT-US95-16435-9
27	41	37.6	948	4	US-09-620-312D-1105

28	41	37.6	960	4	US-09-345-650-1	Sequence 1, Appli
29	41	37.6	2474	4	US-08-285-367C-3	Sequence 3, Appli
30	41	37.6	2474	4	US-08-305-790B-4	Sequence 4, Appli
31	40.5	37.2	570	4	US-09-437-568A-37	Sequence 37, Appli
32	40	36.7	266	4	US-09-252-991A-17646	Sequence 17646, A
33	40	36.7	273	4	US-09-252-991A-28027	Sequence 28027, A
34	40	36.7	429	4	US-09-252-991A-29792	Sequence 29792, A
35	40	36.7	967	3	US-09-139-802-201	Sequence 201, App
36	40	36.7	967	4	US-09-659-786-201	Sequence 201, App
37	40	36.7	972	3	US-08-335-844A-23	Sequence 23, Appli
38	40	36.7	972	4	US-09-129-366-23	Sequence 23, Appli
39	39	35.8	1057	4	US-09-107-532A-4789	Sequence 4789, Ap
40	39	35.8	143	4	US-09-252-991A-22389	Sequence 22389, A
41	39	35.8	207	4	US-09-540-236-3376	Sequence 3376, Ap
42	39	35.8	312	4	US-09-543-681A-6183	Sequence 6183, Ap
43	39	35.8	326	2	US-08-671-978A-7	Sequence 7, Appli
44	39	35.8	616	4	US-08-637-670-26	Sequence 26, Appli
45	39	35.8	616	4	US-08-637-670-28	Sequence 28, Appli

ALIGNMENTS

RESULT 1  
US-09-252-991A-17516  
; Sequence 17516, Application US/09252991A  
; Patent No. 6551795

; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17516  
; LENGTH: 612  
; TYPE: PPT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17516

Query Match 42.7%; Score 46.5; DB 4; Length 612;  
Best Local Similarity 50.0%; Pred. No. 87;  
Matches 10; Conservative 0; Mismatches 5; Indels 5; Gaps 1;  
Qy 2 WICNLFKN-----QWFCDAW 16  
Db 54 WICNLFANLGTWQSVAAAW 73

RESULT 2  
US-09-137-223A-2  
; Sequence 2, Application US/09137223A  
; Patent No. 6420525  
; GENERAL INFORMATION:  
; APPLICANT: Yee, David P  
; APPLICANT: Deisher, Theresa A  
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR  
; FILE REFERENCE: 97-18  
; CURRENT APPLICATION NUMBER: US/09/137,223A  
; CURRENT FILING DATE: 1998-08-19  
; PRIOR APPLICATION NUMBER: 06/056,130  
; PRIOR FILING DATE: 1997-08-19  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 478  
; TYPE: PPT

; ORGANISM: homo sapiens  
US-09-137-223A-2

Query Match 42.2%; Score 46; DB 4; Length 478;  
Best Local Similarity 41.7%; Pred. No. 79;  
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWF 12  
Db 322 EWLSSVYKQWF 333  
! : : : : :  
! : : : : :  
! : : : : :  
! : : : : :

## RESULT 3

US-09-131-028A-3  
; Sequence 3, Application US/09131028A  
; Patent No. 6287866  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Mukerji, Pradip  
; APPLICANT: Lemmel, Steven A.  
; APPLICANT: Leonard, Amanda Eun-Yeong  
; APPLICANT: Chaudhary, Sunita  
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS  
; FILE REFERENCE: 6004.US.P1  
; CURRENT APPLICATION NUMBER: US/09/131,028A  
; CURRENT FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: US 08/064,440  
; PRIOR FILING DATE: 1993-05-21  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-131-028A-3

Query Match 41.3%; Score 45; DB 3; Length 215;  
Best Local Similarity 46.2%; Pred. No. 48;  
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WICNLFKNQWPCD 14  
Db 12 WFCGLRGNEFFCE 24  
! : : : : :  
! : : : : :  
! : : : : :  
! : : : : :

## RESULT 4

US-09-131-028A-13  
; Sequence 13, Application US/09131028A  
; Patent No. 6287866  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Mukerji, Pradip  
; APPLICANT: Lemmel, Steven A.  
; APPLICANT: Leonard, Amanda Eun-Yeong  
; APPLICANT: Chaudhary, Sunita  
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS  
; FILE REFERENCE: 6004.US.P1  
; CURRENT APPLICATION NUMBER: US/09/131,028A  
; CURRENT FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: US 08/064,440  
; PRIOR FILING DATE: 1993-05-21  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-131-028A-13

Query Match 41.3%; Score 45; DB 3; Length 215;  
Best Local Similarity 46.2%; Pred. No. 48;  
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WICNLFKNQWPCD 14  
Db 12 WFCGLRGNEFFCE 24  
! : : : : :  
! : : : : :  
! : : : : :  
! : : : : :

## RESULT 5

US-09-198-452A-941  
; Sequence 941, Application US/09198452A  
; Patent No. 6559294  
; GENERAL INFORMATION:  
; APPLICANT: Griffais, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention of infection and treatment of infection  
; TITLE OF INVENTION: and treatment of infection  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 941  
; LENGTH: 220  
; TYPE: PRT  
; ORGANISM: Chlamydia pneumoniae  
US-09-198-452A-941

Query Match 40.8%; Score 44.5; DB 4; Length 220;  
Best Local Similarity 52.6%; Pred. No. 58;  
Matches 10; Conservative 0; Mismatches 6; Indels 3; Gaps 1;

QY 1 DWICNLFKNQW---FCDW 16  
Db 160 DWIWNFLTLQSEVPSQAW 178  
! : : : : :  
! : : : : :  
! : : : : :  
! : : : : :

## RESULT 6

US-09-328-352-6404  
; Sequence 6404, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Brston et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 6404  
; LENGTH: 319  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-6404

Query Match 40.4%; Score 44; DB 4; Length 319;  
Best Local Similarity 38.9%; Pred. No. 98;  
Matches 7; Conservative 4; Mismatches 5; Indels 2; Gaps 1;

QY 1 DWICNLFK---NQWFCDAW 16  
Db 100 DTMIGIFELNANWYCPAW 117  
! : : : : :  
! : : : : :  
! : : : : :  
! : : : : :

## RESULT 7

US-08-530-792D-23  
; Sequence 23, Application US/08530792D  
; Patent No. 5972860  
; GENERAL INFORMATION:  
; APPLICANT: Knowles, W. J.; Guralski, D.; Haigh, W.; Letsinger, J. T.;  
; APPLICANT: Clairmont, K.; and Hart, J.  
; TITLE OF INVENTION: Glucose Transporter Vesicle Aminopeptidase  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bayer Corporation  
; STREET: 400 Morgan Lane  
; CITY: West Haven

```
; STATE: Connecticut
; COUNTRY: U.S.A.
; ZIP: 06516
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 Mb Storage
; COMPUTER: Dell Windows 95 PC
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/530,792D
; FILING DATE: 09/19/95
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/309,232
; FILING DATE: 09/20/94
; ATTORNEY/AGENT INFORMATION:
; NAME: Brewer, Alice A.
; REGISTRATION NUMBER: 32888
; REFERENCE/DOCKET NUMBER: MMH 323PI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203) 812-2705
; TELEFAX: (203) 812-5492
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1025 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein;
; ORIGINAL SOURCE:
; ORGANISM: Rattus norvegicus
; STRAIN: Sprague-Dawley
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: skeletal muscle
; IMMEDIATE SOURCE:
; LIBRARY: Clontech rat skeletal muscle cDNA library in lambda
; CLONE: 12.1 (from lambda gt11 library), PCR product clones 5,
; CLONE: 334, and KC44.
; FEATURE:
; NAME/KEY: complete amino acid sequence for GTVap, long version
; IDENTIFICATION METHOD: translation from cDNA
US-08-530-792D-23

Query Match 40.4%; Score 44; DB 2; Length 1025;
Best Local Similarity 46.7%; Pred. No. 3.2e+02;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WICNLFKNQWFCDAW 16
Db 470 WFGNLVTMQWMDLW 484

RESULT 8
US-08-530-792D-22
; Sequence 22, Application US/08530792D
; Patent No. 5972680
; GENERAL INFORMATION:
; APPLICANT: Knowles, W. J.; Guralski, D.; Haigh, W.; Letsinger, J. T.;
; APPLICANT: Clairmont, K.; and Hart, J.
; TITLE OF INVENTION: Glucose transporter Vesicle Aminopeptidase
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bayer Corporation
; STREET: 400 Morgan Lane
; CITY: West Haven
; STATE: Connecticut
; COUNTRY: U.S.A.
; ZIP: 06516
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" diskette, 1.44 Mb Storage
; COMPUTER: Dell Windows 95 PC
; OPERATING SYSTEM: Windows 95
```

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; SOFTWARE: WordPerfect for Windows 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/530,792D
; FILING DATE: 09/19/95
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/309,232
; FILING DATE: 09/20/94
; ATTORNEY/AGENT INFORMATION:
; NAME: Brewer, Alice A.
; REGISTRATION NUMBER: 32888
; REFERENCE/DOCKET NUMBER: MMH 323PI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (203) 812-2705
; TELEFAX: (203) 812-5492
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Rattus norvegicus
; STRAIN: Sprague-Dawley
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: skeletal muscle
; IMMEDIATE SOURCE:
; LIBRARY: Clontech rat skeletal muscle cDNA library in lambda gt11
; CLONE: 5.3 (from lambda gt11 library), PCR product clones 5, 334,
; CLONE: and KC44.
; FEATURE:
; NAME/KEY: complete amino acid sequence for GTVap, short version
; IDENTIFICATION METHOD: translation from cDNA
US-08-530-792D-22

Query Match 40.4%; Score 44; DB 2; Length 1026;
Best Local Similarity 46.7%; Pred. No. 3.2e+02;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WICNLFKNQWFCDAW 16
Db 470 WFGNLVTMQWMDLW 484

RESULT 9
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
```

```

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 36,749
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-08-828-488-8
;
; Query Match 39.4%; Score 43; DB 2
; Best Local Similarity 40.0%; Pred. No. 2e+02
; Matches 6; Conservative 3; Mismatches
;
; QY 1 DWICNLKFNQWFCDA 15
; | | | | | : | | |
; Db 400 DMACNFMGDEWFDVS 414
;
; RESULT 12
; US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 36,749
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:

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; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
; US-09-299-689A-8

Query Match 39.4%; Score 43; DB 4; Length 480;  
Best Local Similarity 40.0%; Pred. No. 2e+02;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15  
| | | | | : | | | | :  
Db 400 DMACNFMGDEWVFVDS 414

## RESULT 13

US-09-702-705-336  
; Sequence 336, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-702-705-336

Query Match 39.4%; Score 43; DB 4; Length 480;  
Best Local Similarity 40.0%; Pred. No. 2e+02;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15  
| | | | | : | | | | :  
Db 400 DMACNFMGDEWVFVDS 414

## RESULT 14

US-09-736-457-336  
; Sequence 336, Application US/09736457  
; Patent No. 6509448  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; APPLICANT: Wang, Aijun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.478C15

; CURRENT APPLICATION NUMBER: US/09/736,457  
; CURRENT FILING DATE: 2000-12-13  
; NUMBER OF SEQ ID NOS: 1864  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-736-457-336

Query Match 39.4%; Score 43; DB 4; Length 480;  
Best Local Similarity 40.0%; Pred. No. 2e+02;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15  
| | | | | : | | | | :  
Db 400 DMACNFMGDEWVFVDS 414

## RESULT 15

US-09-614-124B-336  
; Sequence 336, Application US/09614124B  
; Patent No. 6630574  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C9  
; CURRENT APPLICATION NUMBER: US/09/614,124B  
; CURRENT FILING DATE: 2001-07-11  
; NUMBER OF SEQ ID NOS: 1668  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-614-124B-336

Query Match 39.4%; Score 43; DB 4; Length 480;  
Best Local Similarity 40.0%; Pred. No. 2e+02;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDA 15  
| | | | | : | | | | :  
Db 400 DMACNFMGDEWVFVDS 414

Search completed: September 8, 2004, 14:31:48  
Job time : 14.3 secs



GenCore version 5.1.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds  
(without alignments)  
114.961 Million cell updates/sec

Title: US-09-825-517A-133  
Perfect score: 103  
Sequence: 1 DWVCEFDKQWNCNIL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-133
2	95	92.2	16	11	US-09-825-517A-88
3	92	89.3	16	11	US-09-825-517A-118
4	88	85.4	16	11	US-09-825-517A-67
5	84	81.6	16	11	US-09-825-517A-60
6	84	81.6	16	11	US-09-825-517A-82
7	83	80.6	16	11	US-09-825-517A-135
8	81	78.6	16	11	US-09-825-517A-76
9	80	77.7	16	11	US-09-825-517A-137
10	79	76.7	16	11	US-09-825-517A-80
11	79	76.7	16	11	US-09-825-517A-95
12	78	75.7	16	11	US-09-825-517A-104
13	78	75.7	16	11	US-09-825-517A-147
14	78	75.7	16	11	US-09-825-517A-150
15	76	73.8	16	11	US-09-825-517A-75

16	73.8	16	11	US-09-825-517A-116	Sequence 116, App
17	73.8	16	11	US-09-825-517A-139	Sequence 139, App
18	72.8	16	11	US-09-825-517A-49	Sequence 49, Appl
19	72.8	16	11	US-09-825-517A-59	Sequence 59, Appl
20	72.8	16	11	US-09-825-517A-86	Sequence 86, Appl
21	72.8	16	11	US-09-825-517A-151	Sequence 151, App
22	71.8	16	11	US-09-825-517A-65	Sequence 65, Appl
23	71.8	16	11	US-09-825-517A-105	Sequence 105, App
24	71.8	16	11	US-09-825-517A-107	Sequence 107, App
25	70.9	16	11	US-09-825-517A-70	Sequence 70, Appl
26	70.9	16	11	US-09-825-517A-101	Sequence 101, App
27	70.9	16	11	US-09-825-517A-113	Sequence 113, App
28	70.9	16	11	US-09-825-517A-114	Sequence 114, App
29	69.9	16	11	US-09-825-517A-5	Sequence 5, Appl
30	69.9	16	11	US-09-825-517A-117	Sequence 117, App
31	69.9	27	11	US-09-825-517A-25	Sequence 25, Appl
32	68.9	16	11	US-09-825-517A-100	Sequence 100, App
33	68.9	16	11	US-09-825-517A-112	Sequence 112, App
34	68.9	16	11	US-09-825-517A-122	Sequence 122, App
35	68.9	16	11	US-09-825-517A-126	Sequence 126, App
36	68.9	16	11	US-09-825-517A-127	Sequence 127, App
37	68.9	16	11	US-09-825-517A-130	Sequence 130, App
38	68.9	16	11	US-09-825-517A-140	Sequence 140, App
39	68.0	16	11	US-09-825-517A-18	Sequence 18, Appl
40	68.0	16	11	US-09-825-517A-23	Sequence 23, Appl
41	68.0	16	11	US-09-825-517A-33	Sequence 33, Appl
42	68.0	16	11	US-09-825-517A-78	Sequence 78, Appl
43	68.0	16	11	US-09-825-517A-106	Sequence 106, App
44	68.0	16	11	US-09-825-517A-115	Sequence 115, App
45	68.0	16	11	US-09-825-517A-125	Sequence 125, App

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-133  
; Sequence 133, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 133  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURES:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-133

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 4.1e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFDKQWNCNIL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCEFDKQWNCNIL 16

RESULT 2  
US-09-825-517A-88  
; Sequence 88, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-88

```

```

Query Match      92.2%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNLL 16
   |||||:||||:||||
DB 1 DWVCEYDKGQWHCNLL 16

```

```

RESULT 3
US-09-825-517A-118
; Sequence 118, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 118
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-118

```

```

Query Match      89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.6e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNLL 16
   |||||:||||:||||
DB 1 DWVCEFEKGQWTCNVL 16

```

```

RESULT 4
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

```

```

Query Match      85.4%; Score 88; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.9e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNLL 16
   |||||:||||:||||
DB 1 DWVCEFYKQWNCNLL 16

```

```

RESULT 5
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

```

```

Query Match      81.6%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.2e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCNLL 16
   |||||:||||:||||
DB 1 DWVCEIDKGQWTCNPL 16

```

```

RESULT 6
US-09-825-517A-82
; Sequence 82, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-82
  Query Match      81.6%; Score 84; DB 11; Length 16;
  Best Local Similarity 75.0%; Pred. No. 2.2e-05;
  Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEYEKQDQWSCNIL 16

RESULT 7
US-09-825-517A-135
; Sequence 135, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

  Query Match      80.6%; Score 83; DB 11; Length 16;
  Best Local Similarity 81.2%; Pred. No. 3.1e-05;
  Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFDKLQWVCNIL 16

RESULT 8
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

  Query Match      78.6%; Score 81; DB 11; Length 16;
  Best Local Similarity 75.0%; Pred. No. 6e-05;
```

```
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFFKQDQWSCNIL 16

RESULT 9
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

  Query Match      77.7%; Score 80; DB 11; Length 16;
  Best Local Similarity 81.2%; Pred. No. 8.4e-05;
  Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFFKQWYCNIL 16

RESULT 10
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

  Query Match      76.7%; Score 79; DB 11; Length 16;
  Best Local Similarity 75.0%; Pred. No. 0.00012;
  Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWCEFDKGQWNCNIL 16
Db 1 DWCEFIKQWNCNIL 16
```

```

RESULT 11
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

```

```

Query Match 76.7%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00012;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEYAKQWNCNPL 16

```

```

RESULT 12
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

```

```

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFFKQWNCN1L 16

```

```

RESULT 13
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

```

```

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00016;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFIKQWFCNVL 16

```

```

RESULT 14
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

```

```

Query Match 75.7%; Score 78; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00016;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFDKGQWNCN1L 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEFFKQWFCNVL 16

```

```

RESULT 15
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 75  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-75

Query Match 73.8%; Score 76; DB 11; Length 16;  
Best Local Similarity 75.0%; Pred. No. 0.00032;  
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEFDKGQWNCNIL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCEFFKQWFCNVL 16

Search completed: September 8, 2004, 15:58:35  
Job time : 43.85 secs







;; SOFTWARE: WordPerfect (Version 5.0)  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US93/07923  
;; FILING DATE: 19930819  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 07/934,162  
;; FILING DATE: 21-AUG-1992  
;; APPLICATION NUMBER: 07/832,211  
;; FILING DATE: 06-FEB-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 00530/055002  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (617) 542-5070  
;; TELEFAX: (617) 542-8906  
;; TELEX: 200154  
;; INFORMATION FOR SEQ ID NO: 11:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 593  
;; TYPE: amino acid  
;; STRANDEDNESS:  
;; TOPOLOGY: linear  
PCT-US93-07923-11

Query Match 44.7%; Score 46; DB 5; Length 593;  
Best Local Similarity 46.2%; Pred. No. 43;  
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

QY 3 VCEFDK--GQWNC 13  
:|:|:|:|:  
Db 327 ICDYDESSGRWNC 339

RESULT 3  
PCT-US93-07923-3  
;; Sequence 3, Application PC/TUS9307923  
;; GENERAL INFORMATION:  
;; APPLICANT: Morimoto, Chikao  
;; APPLICANT: Schlossman, Stuart F.  
;; APPLICANT: Tanaka, Toshiaki  
;; TITLE OF INVENTION: HUMAN CD26 AND METHODS FOR USE  
;; NUMBER OF SEQUENCES: 16  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Fish & Richardson  
;; STREET: 225 Franklin Street  
;; CITY: Boston  
;; STATE: Massachusetts  
;; COUNTRY: U.S.A.  
;; ZIP: 02110-2804  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; COMPUTER: IBM PS/2 Model 502 or 55SX  
;; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)  
;; SOFTWARE: WordPerfect (Version 5.0)  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US93/07923  
;; FILING DATE: 19930819  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 07/934,162  
;; FILING DATE: 21-AUG-1992  
;; APPLICATION NUMBER: 07/832,211  
;; FILING DATE: 06-FEB-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 00530/055002  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (617) 542-5070  
;; TELEFAX: (617) 542-8906  
;; TELEX: 200154

;; INFORMATION FOR SEQ ID NO: 3:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 755  
;; TYPE: amino acid  
;; STRANDEDNESS:  
;; TOPOLOGY: linear  
PCT-US93-07923-3

Query Match 44.7%; Score 46; DB 5; Length 755;  
Best Local Similarity 46.2%; Pred. No. 55;  
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;  
QY 3 VCEFDK--GQWNC 13  
:|:|:|:|:  
Db 316 ICDYDESSGRWNC 328

RESULT 4  
PCT-US93-07923-2  
;; Sequence 2, Application PC/TUS9307923  
;; GENERAL INFORMATION:  
;; APPLICANT: Morimoto, Chikao  
;; APPLICANT: Schlossman, Stuart F.  
;; APPLICANT: Tanaka, Toshiaki  
;; TITLE OF INVENTION: HUMAN CD26 AND METHODS FOR USE  
;; NUMBER OF SEQUENCES: 16  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Fish & Richardson  
;; STREET: 225 Franklin Street  
;; CITY: Boston  
;; STATE: Massachusetts  
;; COUNTRY: U.S.A.  
;; ZIP: 02110-2804  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
;; COMPUTER: IBM PS/2 Model 502 or 55SX  
;; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)  
;; SOFTWARE: WordPerfect (Version 5.0)  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: PCT/US93/07923  
;; FILING DATE: 19930819  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 07/934,162  
;; FILING DATE: 21-AUG-1992  
;; APPLICATION NUMBER: 07/832,211  
;; FILING DATE: 06-FEB-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Fraser, Janis K.  
;; REGISTRATION NUMBER: 34,819  
;; REFERENCE/DOCKET NUMBER: 00530/055002  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (617) 542-5070  
;; TELEFAX: (617) 542-8906  
;; TELEX: 200154  
;; INFORMATION FOR SEQ ID NO: 2:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 759  
;; TYPE: amino acid  
;; STRANDEDNESS:  
;; TOPOLOGY: linear  
PCT-US93-07923-2

Query Match 44.7%; Score 46; DB 5; Length 759;  
Best Local Similarity 46.2%; Pred. No. 56;  
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;  
QY 3 VCEFDK--GQWNC 13  
:|:|:|:|:  
Db 320 ICDYDESSGRWNC 332

RESULT 5

```

US-08-230-491A-3
; Sequence 3, Application US/08230491A
; Patent No. 5587299
; GENERAL INFORMATION:
; APPLICANT: Rettig, Wolfgang J.; Scanlan, Matthew J.;
; APPLICANT: Garin-Chesa, Pilar; Old, Lloyd J.
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR
; TITLE OF INVENTION: FIBROBLAST ACTIVATION PROTEIN AND USES
; THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FELFE & LYNCH
; STREET: 805 THIRD AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE 3.5 inch 1.2 MB STORAGE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: WORDPERFECT - ASC II
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/230,491A
; FILING DATE: 20-APRIL-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5587299man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 330
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 838-3884
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 766 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;
US-08-230-491A-3

```

```

Query Match 44.7%; Score 46; DB 1; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

```

```

QY 3 VCFEDK--GQWNC 13
Db 327 ICYDESSGRWNC 339

```

```

RESULT 6
US-08-619-280A-3
; Sequence 3, Application US/08619280A
; Patent No. 5767242
; GENERAL INFORMATION:
; APPLICANT: Zimmermann, Rainer; Park, John E.;
; APPLICANT: Rettig, Wolfgang; Old, Lloyd J.
; TITLE OF INVENTION: ISOLATED DIMERIC FIBROBLAST ACTIVATION PROTEIN
; TITLE OF INVENTION: ALPHA, AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 2.0 MB storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/619,280A

```

```

; FILING DATE: 18-MARCH-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/230,491
; FILING DATE: 20-APRIL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5767242man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5330.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 766 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;
US-08-619-280A-3
Query Match 44.7%; Score 46; DB 1; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

```

```

QY 3 VCFEDK--GQWNC 13
Db 327 ICYDESSGRWNC 339

```

```

RESULT 7
US-08-940-391-3
; Sequence 3, Application US/08940391
; Patent No. 5965373
; GENERAL INFORMATION:
; APPLICANT: Zimmermann, Rainer; Park, John E.;
; APPLICANT: Rettig, Wolfgang; Old, Lloyd J.
; TITLE OF INVENTION: ISOLATED DIMERIC FIBROBLAST ACTIVATION
; TITLE OF INVENTION: PROTEIN ALPHA, AND USES THEREOF
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felte & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 2.0 MB storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/940,391
; FILING DATE: 01-OCT-1997
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/619,280
; FILING DATE: 18-MARCH-1996
; APPLICATION NUMBER: 08/230,491
; FILING DATE: 20-APRIL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 5965373man D.
; REGISTRATION NUMBER: 30,946
; REFERENCE/DOCKET NUMBER: LUD 5330.1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 766 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
;
US-08-940-391-3

```

```
Query Match      44.7%; Score 46; DB 2; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

Qy 3 VCEFDK--QWNC 13
   :|:|:|:|:|:|
Db 327 ICDYDESSGRWC 339

RESULT 8
US-09-794-236-1
; Sequence 1, Application US/09794236
; Patent No. 6337069
; GENERAL INFORMATION:
; APPLICANT: Grouzmann, Eric
; APPLICANT: Lacroix, Jean-Silvain
; TITLE OF INVENTION: Method of Treating Rhinitis and Sinusitis
; FILE REFERENCE: 81985/276823
; CURRENT APPLICATION NUMBER: US/09/794,236
; CURRENT FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 766
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-794-236-1

Query Match      44.7%; Score 46; DB 4; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

Qy 3 VCEFDK--QWNC 13
   :|:|:|:|:|:|
Db 327 ICDYDESSGRWC 339

RESULT 9
US-10-002-593-6
; Sequence 6, Application US/10002593
; Patent No. 6586198
; GENERAL INFORMATION:
; APPLICANT: Vanderbilt University
; APPLICANT: Brown, Nancy J.
; TITLE OF INVENTION: BIOLOGICAL MARKERS AND DIAGNOSTIC TESTS FOR ANGIOTENSIN CONVERTIN
; FILE REFERENCE: Atty Docket No. 6586198 1242/48/2
; CURRENT APPLICATION NUMBER: US/10/002,593
; CURRENT FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 60/244,524
; PRIOR FILING DATE: 2000-10-31
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 766
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-002-593-6

Query Match      44.7%; Score 46; DB 4; Length 766;
Best Local Similarity 46.2%; Pred. No. 56;
Matches 6; Conservative 5; Mismatches 0; Indels 2; Gaps 1;

Qy 3 VCEFDK--QWNC 13
   :|:|:|:|:|:|
Db 327 ICDYDESSGRWC 339

RESULT 10
US-09-543-681A-4679
; Sequence 4679, Application US/09543681A
; Patent No. 6605709
```

```
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 4679
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-4679

Query Match      43.7%; Score 45; DB 4; Length 179;
Best Local Similarity 57.1%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 3 VCEFDKGWNCN 16
   |||||
Db 159 VCELGSONWVNV 172

RESULT 11
US-09-417-039-4
; Sequence 4, Application US/09417039A
; Patent No. 6485972
; GENERAL INFORMATION:
; APPLICANT: McMahon, Andrew P.
; APPLICANT: Part, Brian A.
; APPLICANT: Vaino, Seppo
; TITLE OF INVENTION: WNT SIGNALING IN REPRODUCTIVE ORGANS
; FILE REFERENCE: 00246/232001
; CURRENT APPLICATION NUMBER: US/09/417,039A
; CURRENT FILING DATE: 1999-10-12
; EARLIER APPLICATION NUMBER: US 60/109,355
; EARLIER FILING DATE: 1998-10-15
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-417-039-4

Query Match      43.7%; Score 45; DB 4; Length 360;
Best Local Similarity 40.0%; Pred. No. 36;
Matches 8; Conservative 3; Mismatches 5; Indels 4; Gaps 1;

Qy 1 DWVCE----FDKGWNCN 16
   :|:|:|:|:|:|
Db 71 EWTAECHQHPQHRWNCNTL 90

RESULT 12
US-09-489-039A-13594
; Sequence 13594, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13594
; LENGTH: 426
; TYPE: PRT
```

```
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13594

Query Match      43.2%; Score 44.5; DB 4; Length 426;
Best Local Similarity 61.5%; Pred. No. 51;
Matches 8; Conservative 2; Mismatches 2; Indels 1; Gaps 1;

QY      1 DWVCEFDKGQWN 12
Db      271 EWVDIDFDKGIWN 283

RESULT 13
US-08-484-135-27
; Sequence 27, Application US/08484135
; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. Digiglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A..
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484.135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9594
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-135-27

Query Match      41.7%; Score 43; DB 1; Length 20;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEFDKGQWN 13
Db      3 NYLCRFGPGTDC 15

RESULT 14
US-08-484-635-208
; Sequence 208, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

Query Match      41.7%; Score 43; DB 1; Length 20;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEFDKGQWN 13
Db      3 NYLCRFGPGTDC 15

RESULT 15
US-08-484-631-208
; Sequence 208, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
```

```
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA: US/08/484,631
;; APPLICATION NUMBER: US/08/484,631
;; FILING DATE: 07-JUN-1995
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/155,940
;; FILING DATE: 19-NOV-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Garrett-Wackowski, Eugenia
;; REGISTRATION NUMBER: 37,330
;; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 543-9600
;; TELEFAX: (415) 543-5043
;; INFORMATION FOR SEQ ID NO: 208:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 20 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
US-08-484-631-208

Query Match 41.7%; Score 43; DB 2; Length 20;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFDKGQWNC 13
Db 3 NYLCRFGGGTWDC 15
:::|::|
:::|::|
```

Search completed: September 8, 2004, 14:31:47  
Job time : 14.3 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds  
(without alignments)  
114.961 Million cell updates/sec

Title: US-09-825-517A-132  
Perfect score: 104  
Sequence: 1 DWMCNLFKNQWFCDDVQ 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues 1298764  
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-132
2	100	96.2	16	11	US-09-825-517A-62
3	99	95.2	16	11	US-09-825-517A-46
4	96	92.3	16	11	US-09-825-517A-37
5	95	91.3	16	11	US-09-825-517A-42
6	95	91.3	16	11	US-09-825-517A-43
7	95	91.3	16	11	US-09-825-517A-45
8	95	91.3	16	11	US-09-825-517A-52
9	95	91.3	16	11	US-09-825-517A-58
10	95	91.3	16	11	US-09-825-517A-74
11	95	91.3	16	11	US-09-825-517A-120
12	95	91.3	16	11	US-09-825-517A-121
13	95	91.3	16	11	US-09-825-517A-124
14	95	91.3	16	11	US-09-825-517A-129
15	93	89.4	16	11	US-09-825-517A-69

16	93	89.4	16	11	US-09-825-517A-84	Sequence 84, Appl
17	92	88.5	16	11	US-09-825-517A-38	Sequence 38, Appl
18	92	88.5	16	11	US-09-825-517A-48	Sequence 48, Appl
19	92	88.5	16	11	US-09-825-517A-145	Sequence 145, Appl
20	91	87.5	16	11	US-09-825-517A-39	Sequence 39, Appl
21	91	87.5	16	11	US-09-825-517A-47	Sequence 47, Appl
22	91	87.5	16	11	US-09-825-517A-53	Sequence 53, Appl
23	91	87.5	16	11	US-09-825-517A-57	Sequence 57, Appl
24	91	87.5	16	11	US-09-825-517A-73	Sequence 73, Appl
25	91	87.5	16	11	US-09-825-517A-77	Sequence 77, Appl
26	91	87.5	16	11	US-09-825-517A-81	Sequence 81, Appl
27	91	87.5	16	11	US-09-825-517A-83	Sequence 83, Appl
28	91	87.5	16	11	US-09-825-517A-131	Sequence 131, Appl
29	91	87.5	16	11	US-09-825-517A-134	Sequence 134, Appl
30	91	87.5	16	11	US-09-825-517A-136	Sequence 136, Appl
31	90	86.5	16	11	US-09-825-517A-41	Sequence 41, Appl
32	90	86.5	16	11	US-09-825-517A-50	Sequence 50, Appl
33	90	86.5	16	11	US-09-825-517A-98	Sequence 98, Appl
34	90	86.5	16	11	US-09-825-517A-119	Sequence 119, Appl
35	90	86.5	16	11	US-09-825-517A-128	Sequence 128, Appl
36	87	83.7	16	11	US-09-825-517A-64	Sequence 64, Appl
37	86	82.7	16	11	US-09-825-517A-40	Sequence 40, Appl
38	86	82.7	16	11	US-09-825-517A-61	Sequence 61, Appl
39	86	82.7	16	11	US-09-825-517A-66	Sequence 66, Appl
40	86	82.7	16	11	US-09-825-517A-71	Sequence 71, Appl
41	86	82.7	16	11	US-09-825-517A-99	Sequence 99, Appl
42	86	82.7	16	11	US-09-825-517A-108	Sequence 108, Appl
43	85	81.7	16	11	US-09-825-517A-79	Sequence 79, Appl
44	85	81.7	16	11	US-09-825-517A-89	Sequence 89, Appl
45	85	81.7	16	11	US-09-825-517A-92	Sequence 92, Appl

ALIGNMENTS

RESULT 1  
US-09-825-517A-132  
; Sequence 132, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 132  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-132

Query Match 100.0%; Score 104; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 4.7e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDDVQ 16  
| | | | | | | | | | | | | | | |  
Db 1 DWMCNLFKNQWFCDDVQ 16

RESULT 2  
US-09-825-517A-62  
; Sequence 62, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 62  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-62

Query Match 96.2%; Score 100; DB 11; Length 16;  
 Best Local Similarity 93.8%; Pred. No. 1.7e-07;  
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCVDQ 16  
 ||:|||||  
 Db 1 DWVCNLFKNQWFCVDQ 16

## RESULT 3

US-09-825-517A-46

; Sequence 46, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345

; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 46

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: CEA binding polypeptide

US-09-825-517A-46

Query Match 95.2%; Score 99; DB 11; Length 16;  
 Best Local Similarity 100.0%; Pred. No. 2.4e-07;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCVDV 15  
 |||||  
 Db 1 DWMCNLFKNQWFCVDV 15

## RESULT 4

US-09-825-517A-37

; Sequence 37, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 37  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-37

Query Match 92.3%; Score 96; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 6.4e-07;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15  
 |||||  
 Db 1 DWMCNLFKNQWFCDL 15

## RESULT 5

US-09-825-517A-42

; Sequence 42, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345

; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 42

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: CEA binding polypeptide

US-09-825-517A-42

Query Match 91.3%; Score 95; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 8.9e-07;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15  
 ||:|||||  
 Db 1 DWVCNLFKNQWFCDV 15

## RESULT 6

US-09-825-517A-43

; Sequence 43, Application US/09825517A

; Publication No. US20030203415A1

; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J

; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC

; TITLE OF INVENTION: ANTIGEN (CEA)

; FILE REFERENCE: DYX-016.1 (3421.1005-001)

; CURRENT APPLICATION NUMBER: US/09/825,517A

; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345

; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 43

; LENGTH: 16

; TYPE: PRT



```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-43

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8.9e-07;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDD 14
Db 1 DWMCNLFKNQWFCDD 14

RESULT 7
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.9e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDVQ 16
Db 1 DWICNLFKNQWFCDDIR 16

RESULT 8
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 9
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 10
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 11
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          91.3%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 8.9e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

```

## RESULT 11

US-09-825-517A-120  
 ; Sequence 120, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 120  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-120

Query Match 91.3%; Score 95; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 8.9e-07;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15  
 |:|||||  
 Db 1 DWVCNLFKNQWFCDV 15

## RESULT 12

US-09-825-517A-121  
 ; Sequence 121, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 121  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-121

Query Match 91.3%; Score 95; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 8.9e-07;  
 Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDVQ 16  
 |:|||||  
 Db 1 DWICNLFKNQWFCDIR 16

## RESULT 13

US-09-825-517A-124  
 ; Sequence 124, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 124  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-124

Query Match 91.3%; Score 95; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 8.9e-07;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15  
 |:|||||  
 Db 1 DWVCNLFKNQWFCDV 15

## RESULT 14

US-09-825-517A-129  
 ; Sequence 129, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 129  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-129

Query Match 91.3%; Score 95; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 8.9e-07;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDV 15  
 |:|||||  
 Db 1 DWVCNLFKNQWFCDV 15

## RESULT 15

US-09-825-517A-69  
 ; Sequence 69, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03

Wed Sep 8 16:40:48 2004

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 69
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-69

Query Match      89.4%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. NO. 1.7e-06;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFCDV 15
   ||| ||||| |||||
Db 1 DWYCNLFKNQWFCDV 15

Search completed: September 8, 2004, 15:58:35
Job time : 44.85 secs
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; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match          47.1%; Score 49; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 6.2;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      2  WMCNLFKNQWFCDV 15
DB      12 WFCGLRGNEFFCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match          44.2%; Score 46; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 39;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1  DMCNLFKNQWF 12
DB      322 EMLSSVYKQWF 333
           : : : : :

RESULT 4
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROMAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPT, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
US-08-305-790B-4

Query Match      42.3%; Score 44; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 4.2e+02;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      5 NLPKNQWFCVQ 16
Db      1223 NILKNWICSQ 1234

RESULT 6
US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241
; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
; US-08-816-241-1

Query Match      41.8%; Score 43.5; DB 1; Length 190;
Best Local Similarity 28.6%; Pred. No. 35;
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY      2 WMCNLFKNQ-----WFC 14
Db      50 WKTGVFRNQVDSETHCHAEFCFLSWFCD 77
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## RESULT 7

US-09-128-395-1

Query Match 41.3%; Score 43; DB 4; Length 1243;

Best Local Similarity 46.7%; Pred. No. 2.8e+02;  
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WMCNLFKNQWFCDDVQ 16  
Db 163 WFQDLFKDDYFTEVQ 177

## RESULT 9

US-09-029-213B-22  
; Sequence 22, Application US/09029213B  
; Patent No. 6180098  
; GENERAL INFORMATION:  
; APPLICANT: CHRISTIAN, Peter D.  
; TITLE OF INVENTION: RECOMBINANT HELICOVERPA BACULOVIRUSES  
; TITLE OF INVENTION: EXPRESSING HETEROLOGOUS DNA  
; NUMBER OF SEQUENCES: 27  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: McDermott, Will & Emery  
; STREET: 600 13th Street, NW  
; CITY: Washington  
; STATE: District of Columbia  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/029.213B  
; FILING DATE: 31-AUG-1998  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Joseph Hyosuk Kim  
; REGISTRATION NUMBER: 41,425  
; REFERENCE/DOCKET NUMBER: 50179-048  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-756-8000  
; TELEFAX: 202-756-8087  
; INFORMATION FOR SEQ ID NO: 22:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 181 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

US-09-029-213B-22

Query Match 40.9%; Score 42.5; DB 3; Length 181;  
Best Local Similarity 26.9%; Pred. No. 46;  
Matches 7; Conservative 3; Mismatches 5; Indels 11; Gaps 1;

Qy 2 WMC-----NLFKNQWFCDDVQ 16  
Db 115 WFCSDIFKCHDNKLFKPKWKCDIK 140

## RESULT 10

US-08-828-488-8  
; Sequence 8, Application US/08828488  
; Patent No. 5925521  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; TITLE OF INVENTION: CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive

; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/828,488  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0241 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
; US-08-828-488-8

Query Match 40.4%; Score 42; DB 2; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.5e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWMCNLFKNQWFCDD 14  
Db 400 DMACNFMGDEWFVD 413

## RESULT 11

US-09-299-689A-8  
; Sequence 8, Application US/09299689A  
; Patent No. 6379913  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; TITLE OF INVENTION: CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/299,689A  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,488  
; FILING DATE:



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; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFD 413

RESULT 12
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702.705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFD 413

RESULT 13
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom

; ATTORNEY/AGENT INFORMATION:
; NAME: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736.457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFD 413

RESULT 14
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614.124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 40.4%; Score 42; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.5e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWMCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFD 413

RESULT 15
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
```

Wed Sep 8 16:40:48 2004

; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C12  
; CURRENT APPLICATION NUMBER: US/09/671,325  
; CURRENT FILING DATE: 2000-09-26  
; NUMBER OF SEQ ID NOS: 1825  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-671-325-336

Query Match 40.4%; Score 42; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.5e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;  
QY 1 DWMCNLFKNQWFC 14  
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| | | | |  
Db 400 DMACNFGDEWFD 413

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds  
(without alignments)  
114.961 Million cell updates/sec

Title: US-09-825-517A-131

Perfect score: 103

Sequence: 1 DWICNLFKNQWFCDDL 16

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Maximum Match 100%

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3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	101	98.1	16	11	US-09-825-517A-39
3	100	97.1	16	11	US-09-825-517A-136
4	99	96.1	16	11	US-09-825-517A-73
5	98	95.1	16	11	US-09-825-517A-43
6	97	94.2	16	11	US-09-825-517A-77
7	96	93.2	16	11	US-09-825-517A-81
8	96	93.2	16	11	US-09-825-517A-83
9	95	92.2	16	11	US-09-825-517A-47
10	95	92.2	16	11	US-09-825-517A-52
11	94	91.3	16	11	US-09-825-517A-40
12	94	91.3	16	11	US-09-825-517A-45
13	94	91.3	16	11	US-09-825-517A-48
14	94	91.3	16	11	US-09-825-517A-53
15	94	91.3	16	11	US-09-825-517A-57

16	94	91.3	16	11	US-09-825-517A-121	Sequence 121, App
17	94	91.3	16	11	US-09-825-517A-134	Sequence 134, App
18	93	90.3	16	11	US-09-825-517A-38	Sequence 38, App1
19	93	90.3	16	11	US-09-825-517A-42	Sequence 42, App1
20	93	90.3	16	11	US-09-825-517A-58	Sequence 58, App1
21	93	90.3	16	11	US-09-825-517A-62	Sequence 62, App1
22	93	90.3	16	11	US-09-825-517A-74	Sequence 74, App1
23	93	90.3	16	11	US-09-825-517A-89	Sequence 89, App1
24	93	90.3	16	11	US-09-825-517A-120	Sequence 120, App
25	93	90.3	16	11	US-09-825-517A-124	Sequence 124, App
26	93	90.3	16	11	US-09-825-517A-129	Sequence 129, App
27	93	90.3	16	11	US-09-825-517A-145	Sequence 145, App
28	92	89.3	16	11	US-09-825-517A-99	Sequence 99, App1
29	91	88.3	16	11	US-09-825-517A-37	Sequence 37, App1
30	91	88.3	16	11	US-09-825-517A-46	Sequence 46, App1
31	91	88.3	16	11	US-09-825-517A-69	Sequence 69, App1
32	91	88.3	16	11	US-09-825-517A-71	Sequence 71, App1
33	91	88.3	16	11	US-09-825-517A-108	Sequence 108, App
34	91	88.3	16	11	US-09-825-517A-132	Sequence 132, App
35	90	87.4	16	11	US-09-825-517A-64	Sequence 64, App1
36	90	87.4	16	11	US-09-825-517A-92	Sequence 92, App1
37	90	87.4	16	11	US-09-825-517A-128	Sequence 128, App
38	89	86.4	16	11	US-09-825-517A-84	Sequence 84, App1
39	89	86.4	16	11	US-09-825-517A-98	Sequence 98, App1
40	88	85.4	16	11	US-09-825-517A-41	Sequence 41, App1
41	88	85.4	16	11	US-09-825-517A-50	Sequence 50, App1
42	88	85.4	16	11	US-09-825-517A-61	Sequence 61, App1
43	88	85.4	16	11	US-09-825-517A-66	Sequence 66, App1
44	88	85.4	16	11	US-09-825-517A-79	Sequence 79, App1
45	88	85.4	16	11	US-09-825-517A-119	Sequence 119, App

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-131  
; Sequence 131, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Isaac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 131  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-131

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 7.8e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DWICNLFKNQWFCDDL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWICNLFKNQWFCDDL 16

RESULT 2  
US-09-825-517A-39  
; Sequence 39, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

```

```

Query Match      98.1%; Score 101; DB 11; Length 16;
Best Local Similarity 93.8%; Pred No. 1.5e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWICNLFKNQWFCDDQM 16

```

```

RESULT 3
US-09-825-517A-136
; Sequence 136, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 136
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-136

```

```

Query Match      97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.1e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWICNLFKNQWFCDDQM 16

```

```

RESULT 4
US-09-825-517A-73
; Sequence 73, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-73

```

```

Query Match      96.1%; Score 99; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWICNLFKNQWFCDDQV 16

```

```

RESULT 5
US-09-825-517A-43
; Sequence 43, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-43

```

```

Query Match      95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.9e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWICNLFKNQWFCDDQL 16
|||:|||||:|||||:
Db 1 DWICNLFKNQWFCDDQI 16

```

```

RESULT 6
US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

Query Match          94.2%; Score 97; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.4e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDSL 16

RESULT 7
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.5e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDAI 16

RESULT 8
US-09-825-517A-83
; Sequence 83, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-83

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.5e-07;
```

```
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDTL 16

RESULT 9
US-09-825-517A-47
; Sequence 47, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-47

Query Match          92.2%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWICNLFKNQWFCDAI 16

RESULT 10
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          92.2%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDDQL 16
Db 1 DWVCNLFKNQWFCDDL 16
```

```

RESULT 11
US-09-825-517A-40
; Sequence 40, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 40
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-40

```

```

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCDD 15
Db 1 NWICNLFKNQWFCDD 15

```

```

RESULT 12
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

```

```

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCDD 14
Db 1 DWICNLFKNQWFCDD 14

```

```

RESULT 13
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

```

```

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCDD 14
Db 1 DWICNLFKNQWFCDD 14

```

```

RESULT 14
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53

```

```

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 1.4e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 DWICNLFKNQWFCDD 15
Db 1 DWICNLFKNQWFCDD 15

```

```

RESULT 15
US-09-825-517A-57
; Sequence 57, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-57
```

```
Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DWICNLFKNQWFCD 14
        |||||
Db       1 DWICNLFKNQWFCD 14
```

```
Search completed: September 8, 2004, 15:58:34
Job time : 43.85 secs
```





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds  
(without alignments)  
62.106 Million cell updates/sec

Title: US-09-825-517A-131  
Perfect score: 103  
Sequence: 1 DWICNLFKNQWFCDDL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgm2\_6/ptodata/2/iaa/5A-COMB.pep:\*  
2: /cgm2\_6/ptodata/2/iaa/5B-COMB.pep:\*  
3: /cgm2\_6/ptodata/2/iaa/6A-COMB.pep:\*  
4: /cgm2\_6/ptodata/2/iaa/6B-COMB.pep:\*  
5: /cgm2\_6/ptodata/2/iaa/PCTUS-COMB.pep:\*  
6: /cgm2\_6/ptodata/2/iaa/backfiles.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.7	478	US-09-137-223A-2	Sequence 2, Appli
2	46	44.7	480	US-08-828-488-8	Sequence 8, Appli
3	46	44.7	480	US-09-299-689A-8	Sequence 8, Appli
4	46	44.7	480	US-03-702-705-336	Sequence 336, App
5	46	44.7	480	US-09-736-457-336	Sequence 336, App
6	46	44.7	480	US-09-614-124B-336	Sequence 336, App
7	46	44.7	480	US-09-671-325-336	Sequence 336, App
8	46	44.7	480	US-09-589-184-336	Sequence 336, App
9	46	44.7	2474	US-08-265-967C-3	Sequence 3, Appli
10	46	44.7	2474	US-08-305-790B-4	Sequence 4, Appli
11	45	43.7	215	US-09-131-028A-3	Sequence 3, Appli
12	45	43.7	215	US-09-131-028A-13	Sequence 13, Appl
13	45	43.7	612	US-09-252-991A-17516	Sequence 17516, A
14	43.5	42.2	190	US-08-816-241-1	Sequence 1, Appli
15	43.5	42.2	190	US-08-128-395-1	Sequence 1, Appli
16	43	41.7	21	US-09-337-227C-27	Sequence 27, Appl
17	43	41.7	21	US-09-723-251A-27	Sequence 27, Appl
18	42	40.8	582	US-08-194-560-2	Sequence 2, Appli
19	42	40.8	3033	US-07-925-695-8	Sequence 8, Appli
20	42	40.8	3033	US-07-925-695-9	Sequence 9, Appli
21	41	39.8	125	US-08-722-126A-7	Sequence 7, Appli
22	41	39.8	125	PCT-US93-04258-7	Sequence 7, Appli
23	41	39.8	287	US-08-365-103B-4	Sequence 4, Appli
24	41	39.8	300	US-08-365-103B-6	Sequence 6, Appli
25	41	39.8	327	US-08-365-103B-2	Sequence 2, Appli
26	41	39.8	423	US-05-489-039A-7898	Sequence 7898, Ap
27	41	39.8	1422	US-08-469-260A-82	Sequence 82, Appli

28	41	39.8	1422	4	US-08-488-446-82	Sequence 82, Appli
29	41	39.8	1422	4	US-08-467-344A-82	Sequence 82, Appli
30	41	39.8	3033	1	US-07-925-695-5	Sequence 5, Appli
31	40.5	39.3	113	4	US-09-530-903C-4	Sequence 4, Appli
32	40.5	39.3	989	2	US-08-070-301-14	Sequence 14, Appli
33	40	38.8	123	1	US-08-530-010-25	Sequence 25, Appli
34	40	38.8	123	2	US-08-484-101B-25	Sequence 25, Appli
35	40	38.8	123	3	US-08-714-524D-25	Sequence 25, Appli
36	40	38.8	131	2	US-08-834-655-9	Sequence 9, Appli
37	40	38.8	131	3	US-08-834-033A-10	Sequence 10, Appli
38	40	38.8	131	3	US-09-363-574-9	Sequence 9, Appli
39	40	38.8	131	4	US-09-363-526-9	Sequence 9, Appli
40	40	38.8	287	4	US-09-439-261-13	Sequence 13, Appli
41	40	38.8	287	4	US-09-227-613-14	Sequence 14, Appli
42	40	38.8	288	4	US-09-439-261-14	Sequence 14, Appli
43	40	38.8	288	4	US-09-439-261-16	Sequence 16, Appli
44	40	38.8	288	4	US-09-439-261-18	Sequence 18, Appli
45	40	38.8	288	4	US-09-227-613-15	Sequence 15, Appli

## ALIGNMENTS

RESULT 1  
US-09-137-223A-2  
; Sequence 2, Application US/09137223A  
; Patent No. 6420525  
; GENERAL INFORMATION:  
; APPLICANT: Yee, David P  
; APPLICANT: Deisher, Theresa A  
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR  
; TITLE OF INVENTION: ZGCL-1  
; FILE REFERENCE: 97-18  
; CURRENT APPLICATION NUMBER: US/09/137,223A  
; CURRENT FILING DATE: 1998-08-19  
; PRIOR APPLICATION NUMBER: 06/056,130  
; PRIOR FILING DATE: 1997-08-19  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 478  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-137-223A-2

Query Match 44.7%; Score 46; DB 4; Length 478;  
Best Local Similarity 41.7%; Pred.No. 49;  
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 DWICNLFKNQWF 12  
Db 322 EWLSSVYKQWF 333  
:|: :|:|

RESULT 2  
US-08-828-488-8  
; Sequence 8, Application US/08828488  
; Patent No. 5925521  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; TITLE OF INVENTION: CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA

```
;
;
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
;
; US-08-828-488-8
;
;
; Query Match 44.7%; Score 46; DB 2; Length 480;
; Best Local Similarity 43.8%; Pred. No. 49;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; Qy 1 DWICNLFKNQWFCDDQL 16
; | | | | |
; Db 400 DMACNFMGDEWFDVSL 415
;
; RESULT 3
; US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
```

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;
;
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
;
; US-09-299-689A-8
;
;
; Query Match 44.7%; Score 46; DB 4; Length 480;
; Best Local Similarity 43.8%; Pred. No. 49;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; Qy 1 DWICNLFKNQWFCDDQL 16
; | | | | |
; Db 400 DMACNFMGDEWFDVSL 415
;
; RESULT 4
; US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodges, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478CL14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
;
; US-09-702-705-336
;
;
; Query Match 44.7%; Score 46; DB 4; Length 480;
; Best Local Similarity 43.8%; Pred. No. 49;
; Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;
;
; Qy 1 DWICNLFKNQWFCDDQL 16
; | | | | |
; Db 400 DMACNFMGDEWFDVSL 415
;
; RESULT 5
; US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodges, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
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; APPLICANT: Fan, Liqun
; APPLICANT: Wang, AiJun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 6
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, TongTong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 7
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, TongTong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
```

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; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 8
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, TongTong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match 44.7%; Score 46; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 49;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCQDL 16
Db 400 DMACNFMGDEWFDVSL 415

RESULT 9
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROMAGE, HEDIVE
; APPLICANT: LUI, MARY
; APPLICANT: TEMEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
```

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;
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,967C
; FILING DATE: 27-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.46363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBME UT
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
;
US-08-265-967C-3
;
Query Match 44.7%; Score 46; DB 4; Length 2474;
Best Local Similarity 54.5%; Pred. No. 2.7e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 5 NLFKNQWPCDQ 15
| : ||| : |
Db 1223 NILKNAMYCSQ 1233

RESULT 10
US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDMUNT-BROMAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO PKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/305,790B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
```

```
;
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBME UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
;
US-08-305-790B-4
;
Query Match 44.7%; Score 46; DB 4; Length 2474;
Best Local Similarity 54.5%; Pred. No. 2.7e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 5 NLFKNQWPCDQ 15
| : ||| : |
Db 1223 NILKNAMYCSQ 1233

RESULT 11
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-131-028A-3
;
Query Match 43.7%; Score 45; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WICNLFKNQWPCD 14
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Db 12 WFCGLRGNEFFCE 24

RESULT 12
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
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; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match          43.7%; Score 45; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      2 WICNLFKNQWFCDD 14
DB      12 WFCGLRGNEFFCE 24

RESULT 13
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match          43.7%; Score 45; DB 4; Length 612;
Best Local Similarity 87.5%; Pred. No. 88;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 WICNLFKN 9
DB      54 WICNLFAN 61

RESULT 14
US-08-816-241-1
; Sequence 1, Application US/08816241
; Patent No. 5804185
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,241

; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/816,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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; FILING DATE: Filed Herewith
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
US-08-816-241-1

Query Match          42.2%; Score 43.5; DB 1; Length 190;
Best Local Similarity 26.7%; Pred. No. 43;
Matches 8; Conservative 3; Mismatches 4; Indels 15; Gaps 1;

QY      2 WICNLFKNQ-----WFCDD 16
DB      50 WKTGVFRNQVDSETHCHAERCFLSWFCDDI 79

RESULT 15
US-09-128-395-1
; Sequence 1, Application US/09128395
; Patent No. 6087108
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/128,395
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/816,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0239 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 190 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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; IMMEDIATE SOURCE:
; LIBRARY: PROSTUT09
; CLONE: 1646823
US-09-128-395-1

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Query Match	42.2%	Score 43.5;	DB 3;	Length 190;
Best Local Similarity	26.7%	Pred. No. 43;		
Matches 8;	Conservative	3;	Mismatches 4;	Indels 15; Gaps 1;

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Qy      2 WICNLFKNQ-----WFCDDQL 16
      |   : : :
Db      50 WKTGVFERNQVDSETHCAERCFLSWFCDI 79

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Search completed: September 8, 2004, 14:31:46  
Job time : 14.3 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-130

Perfect score: 107

Sequence: 1 DWVCEWFKAQWFCNML 16

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Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Database : Published Applications AA:\*

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2: /cgn2\_6/ptodata/1/pubaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubaa/US07\_NEW\_PUB.pep.\*  
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8: /cgn2\_6/ptodata/1/pubaa/US08\_PUBCOMB.pep.\*  
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11: /cgn2\_6/ptodata/1/pubaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	107	100.0	16	11	US-09-825-517A-130
2	95	88.8	16	11	US-09-825-517A-68
3	93	86.9	16	11	US-09-825-517A-115
4	92	86.0	16	11	US-09-825-517A-146
5	90	84.1	16	11	US-09-825-517A-141
6	89	83.2	16	11	US-09-825-517A-56
7	89	83.2	16	11	US-09-825-517A-86
8	89	83.2	16	11	US-09-825-517A-105
9	89	83.2	16	11	US-09-825-517A-148
10	88	82.2	16	11	US-09-825-517A-54
11	88	82.2	16	11	US-09-825-517A-59
12	88	82.2	16	11	US-09-825-517A-75
13	88	82.2	16	11	US-09-825-517A-138
14	88	82.2	16	11	US-09-825-517A-143
15	87	81.3	16	11	US-09-825-517A-137

16	87	81.3	16	11	US-09-825-517A-144	Sequence 144, App
17	87	81.3	16	11	US-09-825-517A-150	Sequence 150, App
18	86	80.4	16	11	US-09-825-517A-126	Sequence 126, App
19	85	79.4	16	11	US-09-825-517A-100	Sequence 100, App
20	84	78.5	16	11	US-09-825-517A-112	Sequence 112, App
21	84	78.5	16	11	US-09-825-517A-122	Sequence 122, App
22	84	78.5	16	11	US-09-825-517A-125	Sequence 125, App
23	84	78.5	16	11	US-09-825-517A-140	Sequence 140, App
24	84	78.5	16	11	US-09-825-517A-142	Sequence 142, App
25	84	78.5	16	11	US-09-825-517A-147	Sequence 147, App
26	82	76.6	16	11	US-09-825-517A-104	Sequence 104, App
27	82	76.6	16	11	US-09-825-517A-139	Sequence 139, App
28	81	75.7	16	11	US-09-825-517A-109	Sequence 109, App
29	80	74.8	16	11	US-09-825-517A-65	Sequence 65, App
30	80	74.8	16	11	US-09-825-517A-101	Sequence 101, App
31	79	73.8	16	11	US-09-825-517A-76	Sequence 76, App
32	79	73.8	16	11	US-09-825-517A-128	Sequence 128, App
33	78	72.9	16	11	US-09-825-517A-67	Sequence 67, App
34	78	72.9	16	11	US-09-825-517A-78	Sequence 78, App
35	77	72.0	16	11	US-09-825-517A-127	Sequence 127, App
36	77	72.0	16	11	US-09-825-517A-50	Sequence 50, App
37	77	72.0	16	11	US-09-825-517A-103	Sequence 103, App
38	77	72.0	16	11	US-09-825-517A-117	Sequence 117, App
39	76	71.0	16	11	US-09-825-517A-91	Sequence 91, App
40	75	70.1	16	11	US-09-825-517A-80	Sequence 80, App
41	75	70.1	16	11	US-09-825-517A-114	Sequence 114, App
42	75	70.1	16	11	US-09-825-517A-119	Sequence 119, App
43	74	69.2	16	11	US-09-825-517A-49	Sequence 49, App
44	74	69.2	16	11	US-09-825-517A-52	Sequence 52, App
45	74	69.2	16	11	US-09-825-517A-61	Sequence 61, App

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-130  
; Sequence 130, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Radner, Isaac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 130  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-130

Query Match 100.0%; Score 107; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16  
|||||  
Db 1 DWVCEWFKAQWFCNML 16

RESULT 2  
US-09-825-517A-68  
; Sequence 68, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      88.8%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 4.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
   ||||| |||||
Db 1 DWVCEWFKPQWFCNPL 16

RESULT 3
US-09-825-517A-115
; Sequence 115, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 115
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-115

Query Match      86.9%; Score 93; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.7e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
   ||||| |||||
Db 1 DWVCEWFKPQWFCNLL 16

RESULT 4
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      86.0%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
   ||||| |||||
Db 1 DWVCEWLKQWFCNSL 16

RESULT 5
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match      84.1%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.9e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNML 16
   ||||| |||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 6
US-09-825-517A-56
; Sequence 56, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 16
; TYPE: PRT
```



```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-56

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
Db 1 DWVCEWFKAQWFCNAL 16

RESULT 7
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
Db 1 DWVCEFFKKQWFCNLL 16

RESULT 8
US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;

```

```

Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
Db 1 DWVCEYFKSQWMCNML 16

RESULT 9
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match      83.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.6e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 10
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      82.2%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.6e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFCNML 16
Db 1 DWVCEWLKHQWACNML 16

```

## RESULT 11

US-09-825-517A-59  
 ; Sequence 59, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: ANTIGEN (CEA)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 59  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-59

Query Match 82.2%; Score 88; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;  
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNNML 16  
 Db 1 DWVCEYFKQWFCNVL 16

## RESULT 12

US-09-825-517A-75  
 ; Sequence 75, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: ANTIGEN (CEA)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 75  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-75

Query Match 82.2%; Score 88; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;  
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNNML 16  
 Db 1 DWVCEFFKQWFCNVL 16

## RESULT 13

US-09-825-517A-138  
 ; Sequence 138, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: ANTIGEN (CEA)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 138  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 ; US-09-825-517A-138

Query Match 82.2%; Score 88; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;  
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNNML 16  
 Db 1 DWVCEWLKQWACNNML 16

## RESULT 14

US-09-825-517A-143  
 ; Sequence 143, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: ANTIGEN (CEA)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 143  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 ; US-09-825-517A-143

Query Match 82.2%; Score 88; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 3.6e-05;  
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWFKAQWFCNNML 16  
 Db 1 DWVCEWLKQWACNNML 16

## RESULT 15

US-09-825-517A-137  
 ; Sequence 137, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: ANTIGEN (CEA)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137
```

```
Query Match      81.3%; Score 87; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 4.8e-05;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 DWVCEWFKAOWFCNML 16
        |||||:|:|:|:|:|
Db      1 DWVCEFFKXQWYCNIL 16
```

```
Search completed: September 8, 2004, 14:25:10
Job time : 45.3 secs
```



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-130

Perfect score: 107

Sequence: 1 DWCEWFKQWFCNNL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*

1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pbp.\*

2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pbp.\*

3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pbp.\*

4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pbp.\*

5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pbp.\*

6: /cgn2\_6/ptodata/2/iaa/backfiles1.pbp.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	47.7	487	4	US-09-134-000C-6001
2	49	45.8	677	3	US-09-061-768A-4
3	49	45.8	677	4	US-09-764-246-4
4	46	43.0	71	4	US-09-621-976-5666
5	46	43.0	89	4	US-09-621-976-7155
6	45	42.1	393	1	US-08-689-974-4
7	45	42.1	393	3	US-09-058-376-4
8	45	42.1	411	2	US-08-568-459A-20
9	45	42.1	411	2	US-08-487-826B-32
10	45	42.1	411	4	US-09-210-288-20
11	45	42.1	2710	2	US-08-568-459A-12
12	45	42.1	2710	2	US-08-487-826B-12
13	45	42.1	2710	4	US-09-210-288-12
14	45	42.1	3060	2	US-08-487-826B-14
15	43.5	40.7	381	4	US-09-721-870-28
16	43	40.2	18	4	US-10-158-847-83
17	43	40.2	24	1	US-08-484-635-86
18	43	40.2	24	2	US-08-484-631-86
19	43	40.2	24	2	US-08-827-570-86
20	42	39.3	63	4	US-09-497-491-47
21	42	39.3	475	4	US-09-252-991A-28111
22	42	39.3	486	4	US-09-352-991A-31879
23	41.5	38.8	20	2	US-07-894-063A-6
24	41.5	38.8	30	1	US-08-262-037-16
25	41.5	38.8	38	1	US-08-262-037-95
26	41.5	38.8	47	1	US-08-262-037-96
27	41.5	38.8	106	3	US-08-444-818-24

28 41.5 38.8 176 3 US-08-444-818-28 Sequence 28, Appli

29 41.5 38.8 360 4 US-08-850-328-4 Sequence 4, Appli

30 41.5 38.8 516 3 US-08-867-611-6 Sequence 6, Appli

31 41.5 38.8 516 4 US-09-690-359-6 Sequence 6, Appli

32 41.5 38.8 516 5 PCT-US92-06965A-11 Sequence 11, Appli

33 41.5 38.8 798 3 US-08-867-611-36 Sequence 36, Appli

34 41.5 38.8 798 4 US-09-690-359-36 Sequence 36, Appli

35 41.5 38.8 859 3 US-08-444-818-30 Sequence 30, Appli

36 41.5 38.8 1040 4 US-10-104-966-9 Sequence 9, Appli

37 41.5 38.8 1786 3 US-08-444-818-54 Sequence 54, Appli

38 41.5 38.8 2261 3 US-08-444-818-66 Sequence 66, Appli

39 41.5 38.8 2436 3 US-08-444-818-75 Sequence 75, Appli

40 41.5 38.8 2772 3 US-08-444-818-89 Sequence 89, Appli

41 41.5 38.8 2894 2 US-08-466-975A-23 Sequence 23, Appli

42 41.5 38.8 2894 2 US-08-391-671A-23 Sequence 23, Appli

43 41.5 38.8 2894 3 US-08-467-902A-23 Sequence 23, Appli

44 41.5 38.8 2894 3 US-09-275-265-23 Sequence 23, Appli

45 41.5 38.8 2894 4 US-09-941-611-23 Sequence 23, Appli

## ALIGNMENTS

RESULT 1

US-09-134-000C-6001

; Sequence 6001, Application US/09134000C

; Patent No. 6617156

; GENERAL INFORMATION:

; APPLICANT: Lynn Doucette-Stamm et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO

; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 032796-032

; CURRENT APPLICATION NUMBER: US/09/134.000C

; CURRENT FILING DATE: 1998-08-13

; PRIOR APPLICATION NUMBER: US 60/055,778

; PRIOR FILING DATE: 1997-08-15

; NUMBER OF SEQ ID NOS: 6812

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 6001

; LENGTH: 487

; TYPE: PRT

; ORGANISM: Enterococcus faecalis

US-09-134-000C-6001

Query Match 47.7%; Score 51; DB 4; Length 487;

Best Local Similarity 53.8%; Pred. No. 5.5;

Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWFKQWFC 13

Db 29 NWFTKWKAEKFC 41

## RESULT 2

US-09-061-768A-4

; Sequence 4, Application US/09061768A

; Patent No. 6204037

; GENERAL INFORMATION:

; APPLICANT: BRASH, ALAN R.

; APPLICANT: BOEGLIN, WILLIAM E.

; APPLICANT: JISAKA, MITSUO

; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS

; NUMBER OF SEQUENCES: 36

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARLES A. TAYLOR, JR.

; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD

; CITY: DURHAM

; STATE: NORTH CAROLINA

; COUNTRY: USA

; ZIP: 27707

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage

; COMPUTER: IBM PC/XT/AT compatible

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;; OPERATING SYSTEM: Windows 3.1
;; SOFTWARE: WORD PERFECT 6.1 and ASCII
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/061.768A
;; FILING DATE: APRIL 16, 1998
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA: NONE
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: ARLES A. TAYLOR, JR.
;; REGISTRATION NUMBER: 39,395
;; REFERENCE/DOCKET NUMBER: 1242/5
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (919) 493-8000
;; TELEFAX: (919) 419-0383
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 677 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: unknown
US-09-061-768A-4

Query Match 45.8%; Score 49; DB 3; Length 677;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWFKAQW 11
DB 88 WFCRWFELEW 97

RESULT 3
US-09-764-246-4
; Sequence 4, Application US/09764246
; Patent No. 6649355
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; BOEGLIN, WILLIAM E.
; JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:

;; LENGTH: 677 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: unknown
US-09-764-246-4

Query Match 45.8%; Score 49; DB 4; Length 677;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWFKAQW 11
DB 88 WFCRWFELEW 97

RESULT 4
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match 43.0%; Score 46; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 4.1;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQWFC 13
DB 54 DWNCVWEFHHWLC 66

RESULT 5
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match 43.0%; Score 46; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 5.2;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWFKAQW 11
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; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-459A-20

Query Match 42.1%; Score 45; DB 2; Length 411;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|:|:|:|:|
Db 229 WMTW--AEWYC 238

RESULT 10
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-09-210-288-20

Query Match 42.1%; Score 45; DB 4; Length 411;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|:|:|:|:|
Db 229 WMTW--AEWYC 238

RESULT 11
US-08-568-459A-12
```

```
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-459A-20

Query Match 42.1%; Score 45; DB 2; Length 411;
Best Local Similarity 50.0%; Pred. No. 36;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|:|:|:|:|
Db 229 WMTW--AEWYC 238

RESULT 9
US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelson, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-0176
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
```



```
; Sequence 12, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-08-568-459A-12

Query Match 42.1%; Score 45; DB 2; Length 2710;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCEWFKAQWFC 13
|: || |::|
Db 1138 WMTW--AEWYC 1147

RESULT 12
US-08-487-826B-12
; Sequence 12, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael

; Sequence 12, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael

; Sequence 12, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
```

```

; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-09-210-288-12

Query Match 42.1%; Score 45; DB 4; Length 2710;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCWFKAQWFC 13
Db 1136 WMTW--AEWYC 1147

RESULT 14
US-08-487-826B-14
; Sequence 14, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14

Query Match 42.1%; Score 45; DB 2; Length 3060;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;
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```

; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-09-210-288-12

Query Match 42.1%; Score 45; DB 4; Length 2710;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;

Qy 2 WVCWFKAQWFC 13
Db 1136 WMTW--AEWYC 1147

RESULT 14
US-08-487-826B-14
; Sequence 14, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14

Query Match 42.1%; Score 45; DB 2; Length 3060;
Best Local Similarity 50.0%; Pred. No. 2.5e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 2; Gaps 1;
```

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-129

Perfect score: 103

Sequence: 1 DWVCNLFKNQWFCFCDVM 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubaa/PCF\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubaa/PCFUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-42
2	103	100.0	16	11	US-09-825-517A-129
3	100	97.1	16	11	US-09-825-517A-38
4	100	97.1	16	11	US-09-825-517A-52
5	99	96.1	16	11	US-09-825-517A-124
6	98	95.1	16	11	US-09-825-517A-50
7	98	95.1	16	11	US-09-825-517A-58
8	98	95.1	16	11	US-09-825-517A-62
9	98	95.1	16	11	US-09-825-517A-74
10	98	95.1	16	11	US-09-825-517A-120
11	97	94.2	16	11	US-09-825-517A-37
12	97	94.2	16	11	US-09-825-517A-136
13	96	93.2	16	11	US-09-825-517A-39
14	96	93.2	16	11	US-09-825-517A-45
15	96	93.2	16	11	US-09-825-517A-46

16	96	93.2	16	11	US-09-825-517A-81	Sequence 81, Appl
17	96	93.2	16	11	US-09-825-517A-83	Sequence 83, Appl
18	96	93.2	16	11	US-09-825-517A-121	Sequence 121, Appl
19	95	92.2	16	11	US-09-825-517A-69	Sequence 69, Appl
20	95	92.2	16	11	US-09-825-517A-128	Sequence 128, Appl
21	95	92.2	16	11	US-09-825-517A-132	Sequence 132, Appl
22	95	92.2	16	11	US-09-825-517A-145	Sequence 145, Appl
23	94	91.3	16	11	US-09-825-517A-47	Sequence 47, Appl
24	94	91.3	16	11	US-09-825-517A-48	Sequence 48, Appl
25	94	91.3	16	11	US-09-825-517A-53	Sequence 53, Appl
26	94	91.3	16	11	US-09-825-517A-73	Sequence 73, Appl
27	94	91.3	16	11	US-09-825-517A-77	Sequence 77, Appl
28	93	90.3	16	11	US-09-825-517A-57	Sequence 57, Appl
29	93	90.3	16	11	US-09-825-517A-84	Sequence 84, Appl
30	93	90.3	16	11	US-09-825-517A-119	Sequence 119, Appl
31	93	90.3	16	11	US-09-825-517A-131	Sequence 131, Appl
32	93	90.3	16	11	US-09-825-517A-134	Sequence 134, Appl
33	92	89.3	16	11	US-09-825-517A-99	Sequence 99, Appl
34	91	88.3	16	11	US-09-825-517A-41	Sequence 41, Appl
35	91	88.3	16	11	US-09-825-517A-43	Sequence 43, Appl
36	91	88.3	16	11	US-09-825-517A-98	Sequence 98, Appl
37	90	87.4	16	11	US-09-825-517A-66	Sequence 66, Appl
38	89	86.4	16	11	US-09-825-517A-61	Sequence 61, Appl
39	89	86.4	16	11	US-09-825-517A-64	Sequence 64, Appl
40	88	85.4	16	11	US-09-825-517A-40	Sequence 40, Appl
41	88	85.4	16	11	US-09-825-517A-71	Sequence 71, Appl
42	88	85.4	16	11	US-09-825-517A-79	Sequence 79, Appl
43	88	85.4	16	11	US-09-825-517A-108	Sequence 108, Appl
44	87	84.5	16	11	US-09-825-517A-89	Sequence 89, Appl
45	87	84.5	16	11	US-09-825-517A-92	Sequence 92, Appl

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-42  
; Sequence 42, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DXX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 42  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-42

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 9.3e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCDVM 16  
|||  
Db 1 DWVCNLFKNQWFCFCDVM 16

RESULT 2  
US-09-825-517A-129  
; Sequence 129, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 129  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-129

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 9.3e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16  
Db 1 DWVCNLFKNQWFCDDVM 16

RESULT 3  
US-09-825-517A-38  
; Sequence 38, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 38  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-38

Query Match 97.1%; Score 100; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 2.4e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16  
Db 1 DWVCNLFKNQWFCDDLM 16

RESULT 4  
US-09-825-517A-52  
; Sequence 52, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 52  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-52

Query Match 97.1%; Score 100; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 2.4e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16  
Db 1 DWVCNLFKNQWFCDDL 16

RESULT 5  
US-09-825-517A-124  
; Sequence 124, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 124  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-124

Query Match 96.1%; Score 99; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 3.4e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVM 16  
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 6  
US-09-825-517A-50  
; Sequence 50, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 50  
; LENGTH: 16  
; TYPE: PRT

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 7
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 8
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 9
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 10
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match          95.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15
Db 1 DWVCNLFKNQWFCDDV 15

```

```
RESULT 11
US-09-825-517A-37
; Sequence 37, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-37

Query Match          94.2%; Score 97; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.4e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 16
Db 1 DWMCNLFKNQWFCDDM 16

RESULT 12
US-09-825-517A-136
; Sequence 136, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 136
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-136

Query Match          94.2%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 6.4e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 16
Db 1 DWVCNLFKNQWFCDDM 16

RESULT 13
US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

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; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.8e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 16
Db 1 DWICNLFKNQWFCDDM 16

RESULT 14
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.8e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 15
Db 1 DWICNLFKNQWFCDDI 15

RESULT 15
US-09-825-517A-46
; Sequence 46, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
```

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-46

Query Match      93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWMCNLFKNQWFCDDV 16
      ||:|||||:
Db      1 DWMCNLFKNQWFCDDV 16

Search completed: September 8, 2004, 14:25:09
Job time : 44.3 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-129

Perfect score: 103

Sequence: 1 DWVCNLFKNQWFCVDV 16

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Total number of hits satisfying chosen parameters: 389414

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Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	48	46.6	215	3	US-09-131-028A-13
3	45	43.7	478	4	US-09-137-223A-2
4	44	42.7	612	4	US-09-252-991A-17516
5	43.5	42.2	670	4	US-09-587-811A-2
6	43	41.7	21	4	US-09-337-227C-27
7	43	41.7	21	4	US-09-723-251A-27
8	43	41.7	480	2	US-08-828-488-8
9	43	41.7	480	4	US-09-239-689A-8
10	43	41.7	480	4	US-09-702-705-336
11	43	41.7	480	4	US-09-736-457-336
12	43	41.7	480	4	US-09-614-124B-336
13	43	41.7	480	4	US-09-671-325-336
14	43	41.7	480	4	US-09-589-184-336
15	42.5	41.3	190	1	US-08-816-241-1
16	42.5	41.3	190	3	US-09-128-395-1
17	41	39.8	326	2	US-08-671-978A-7
18	41	39.8	582	3	US-08-194-560-2
19	41	39.8	2474	4	US-08-265-967C-3
20	41	39.8	2474	4	US-08-305-790B-4
21	40.5	39.3	181	3	US-09-029-213B-22
22	39.5	38.3	286	4	US-09-328-352-5022
23	39	37.9	80	4	US-09-673-395A-447
24	39	37.9	131	2	US-08-834-655-9
25	39	37.9	131	3	US-08-834-033A-10
26	39	37.9	131	3	US-09-363-574-9
27	39	37.9	131	4	US-09-363-526-9

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28 39 37.9 219 4 US-09-439-261-20 Sequence 20, Appl
29 39 37.9 219 4 US-09-227-613-19 Sequence 19, Appl
30 39 37.9 227 4 US-08-213-419B-13 Sequence 13, Appl
31 39 37.9 287 4 US-09-439-261-13 Sequence 13, Appl
32 39 37.9 287 4 US-09-227-613-14 Sequence 14, Appl
33 39 37.9 288 4 US-09-439-261-14 Sequence 14, Appl
34 39 37.9 288 4 US-09-439-261-16 Sequence 16, Appl
35 39 37.9 288 4 US-09-439-261-18 Sequence 18, Appl
36 39 37.9 288 4 US-09-439-261-11 Sequence 11, Appl
37 39 37.9 444 4 US-09-439-261-11 Sequence 11, Appl
38 39 37.9 444 4 US-09-227-613-12 Sequence 12, Appl
39 39 37.9 444 4 US-09-227-613-42 Sequence 42, Appl
40 39 37.9 444 4 US-09-048-888-3 Sequence 3, Appl
41 39 37.9 445 4 US-09-439-261-39 Sequence 39, Appl
42 39 37.9 445 4 US-09-439-261-45 Sequence 45, Appl
43 39 37.9 445 4 US-09-439-261-45 Sequence 45, Appl
44 39 37.9 932 4 US-09-328-352-7453 Sequence 7453, Ap
45 39 37.9 1422 4 US-08-469-260A-82 Sequence 82, Appl

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#### ALIGNMENTS

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RESULT 1
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131.028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3

Query Match 46.6%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCVDV 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 2
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131.028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22

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; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match          46.6%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      2 WVCNLFKNQFCDV 15
DB      12 WFCGLRGNERPCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR FILING DATE: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match          43.7%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 62;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWCNLFKNQWF 12
DB      322 EWLSVYKQWF 333

RESULT 4
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6351795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match          42.7%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 11e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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QY      2 WVCNLFKN 9
DB      54 WICNLFAN 61

RESULT 5
US-09-587-811A-2
; Sequence 2, Application US/09587811A
; Patent No. 6677443
; GENERAL INFORMATION:
; APPLICANT: Malutan, Tabita
; APPLICANT: Donly, Cam
; APPLICANT: Caveney, Stan
; TITLE OF INVENTION: INSECT MONOAMINE TRANSPORTER AND METHODS
; FILE REFERENCE: AP32505 072667.0133
; CURRENT APPLICATION NUMBER: US/09/587,811A
; CURRENT FILING DATE: 2000-06-06
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 670
; TYPE: PRT
; ORGANISM: Trichoplusia ni
US-09-587-811A-2

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Best Local Similarity 56.2%; Pred. No. 1.4e+02;
Matches 9; Conservative 1; Mismatches 5; Indels 1; Gaps 1;

QY      2 W-VCNLFKNQWFCFDM 16
DB      176 WKICPLFKGVGFCFDM 191

RESULT 6
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match          41.7%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 4.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
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QY      2 WVCNLFKNQWFCFDM 14
DB      3 WVCNLFKNQWFCFDM 15
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RESULT 7  
US-09-723-251A-27  
; Sequence 27, Application US/09723251A  
; Patent No. 6608028  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Yvonne May-Yee  
; APPLICANT: Clark, Ross G.  
; APPLICANT: Cochran, Andrea G.  
; APPLICANT: Lowman, Henry B.  
; APPLICANT: Robinson, Iain C.A.F.  
; APPLICANT: Skelton, Nicholas J.  
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES  
; FILE REFERENCE: P1071P2C1.2rev  
; CURRENT APPLICATION NUMBER: US/09/723,251A  
; CURRENT FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: US 09/337,227  
; PRIOR FILING DATE: 1999-06-22  
; PRIOR APPLICATION NUMBER: US 08/825,852  
; PRIOR FILING DATE: 1997-04-04  
; NUMBER OF SEQ ID NOS: 51  
; SEQ ID NO 27  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Sequence is synthesized  
; Patent No. 6608028  
US-09-723-251A-27

Query Match 41.7%; Score 43; DB 4; Length 21;  
Best Local Similarity 46.2%; Pred. No. 4.9;  
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWPCD 14  
Db 3 WVCRAGPLWLCE 15

RESULT 8  
US-08-828-488-8  
; Sequence 8, Application US/08828488  
; Patent No. 5925521  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; TITLE OF INVENTION: CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/828,488  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0241 US

; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
US-08-828-488-8

Query Match 41.7%; Score 43; DB 2; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.2e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14  
Db 400 DMACNFMGDEWFDV 413

RESULT 9  
US-09-299-689A-8  
; Sequence 8, Application US/09299689A  
; Patent No. 6379913  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; TITLE OF INVENTION: CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/299,689A  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,488  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0241 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
US-09-299-689A-8

Query Match 41.7%; Score 43; DB 4; Length 480;

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Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 10
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 11
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 12
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCFCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 13
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 41.7%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-128

Perfect score: 102

Sequence: 1 DWVCNLFKNQWFCNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	100.0	16	11	US-09-825-517A-128
2	100	98.0	16	11	Sequence 128, App
3	98	96.1	16	11	Sequence 50, Appl
4	97	95.1	16	11	Sequence 119, App
5	95	93.1	16	11	Sequence 52, Appl
6	95	93.1	16	11	Sequence 42, App
7	94	92.2	16	11	Sequence 129, App
8	94	92.2	16	11	Sequence 61, Appl
9	93	91.2	16	11	Sequence 124, App
10	93	91.2	16	11	Sequence 58, Appl
11	93	91.2	16	11	Sequence 62, Appl
12	93	91.2	16	11	Sequence 71, Appl
13	93	91.2	16	11	Sequence 74, Appl
14	93	91.2	16	11	Sequence 81, Appl
15	93	91.2	16	11	Sequence 83, Appl
					Sequence 108, App

16	93	91.2	16	11	US-09-825-517A-120	Sequence 120, App
17	92	90.2	16	11	US-09-825-517A-38	Sequence 38, Appl
18	92	90.2	16	11	US-09-825-517A-69	Sequence 69, Appl
19	91	89.2	16	11	US-09-825-517A-41	Sequence 41, Appl
20	91	89.2	16	11	US-09-825-517A-45	Sequence 45, Appl
21	91	89.2	16	11	US-09-825-517A-46	Sequence 46, Appl
22	91	89.2	16	11	US-09-825-517A-59	Sequence 59, Appl
23	91	89.2	16	11	US-09-825-517A-77	Sequence 77, Appl
24	91	89.2	16	11	US-09-825-517A-121	Sequence 121, App
25	90	88.2	16	11	US-09-825-517A-47	Sequence 47, Appl
26	90	88.2	16	11	US-09-825-517A-127	Sequence 127, App
27	90	88.2	16	11	US-09-825-517A-131	Sequence 131, App
28	90	88.2	16	11	US-09-825-517A-132	Sequence 132, App
29	90	88.2	16	11	US-09-825-517A-145	Sequence 145, App
30	89	87.3	16	11	US-09-825-517A-4	Sequence 4, Appl
31	89	87.3	16	11	US-09-825-517A-37	Sequence 37, Appl
32	89	87.3	16	11	US-09-825-517A-48	Sequence 48, Appl
33	89	87.3	16	11	US-09-825-517A-53	Sequence 53, Appl
34	89	87.3	16	11	US-09-825-517A-73	Sequence 73, Appl
35	89	87.3	16	11	US-09-825-517A-92	Sequence 92, Appl
36	89	87.3	16	11	US-09-825-517A-136	Sequence 136, App
37	89	87.3	16	11	US-09-825-517A-24	Sequence 24, Appl
38	88	86.3	16	11	US-09-825-517A-39	Sequence 39, Appl
39	88	86.3	16	11	US-09-825-517A-57	Sequence 57, Appl
40	88	86.3	16	11	US-09-825-517A-79	Sequence 79, Appl
41	88	86.3	16	11	US-09-825-517A-84	Sequence 84, Appl
42	88	86.3	16	11	US-09-825-517A-134	Sequence 134, App
43	87	85.3	16	11	US-09-825-517A-64	Sequence 64, Appl
44	87	85.3	16	11	US-09-825-517A-89	Sequence 89, Appl
45	87	85.3	16	11	US-09-825-517A-100	Sequence 100, App

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-128  
; Sequence 128, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rodon, Isaac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DXX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 128  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-128

Query Match 100.0%; Score 102; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1.7e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCNVL 16

RESULT 2  
US-09-825-517A-50  
; Sequence 50, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 50  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-50

Query Match 98.0%; Score 100; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 3.2e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCNVN 16

RESULT 3  
US-09-825-517A-119  
; Sequence 119, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 119  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-119

Query Match 96.1%; Score 98; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 6e-07;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15  
| | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCNV 15

RESULT 4  
US-09-825-517A-52  
; Sequence 52, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 52  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-52

Query Match 95.1%; Score 97; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 8.3e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCDVL 16

RESULT 5  
US-09-825-517A-42  
; Sequence 42, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 42  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-42

Query Match 93.1%; Score 95; DB 11; Length 16;  
Best Local Similarity 87.5%; Pred. No. 1.6e-06;  
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCDVM 16

RESULT 6  
US-09-825-517A-129  
; Sequence 129, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 129  
; LENGTH: 16  
; TYPE: PRT



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNVL 16
   |||||
Db 1 DWVCNLFKNQWFCFDM 16

RESULT 7
US-09-825-517A-61
; Sequence 61, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-61

Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.2e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCN 14
   |||||
Db 1 DWVCNLFKNQWFCN 14

RESULT 8
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.2e-06;
```

```
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNVL 16
   |||||
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 9
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNV 15
   |||||
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 10
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNV 15
   |||||
Db 1 DWVCNLFKNQWFCDDV 15
```

```

RESULT 11
US-09-825-517A-71
; Sequence 71, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-71

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 92.9%; Pred. No. 3e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14
|:|:|:|:|:|:|:|:|:|
Db 1 DWICNLFKNQWFCN 14

RESULT 12
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
|:|:|:|:|:|:|:|:|:|
Db 1 DWVCNLFKNQWFCNV 15

RESULT 13
US-09-825-517A-81
; Sequence 81, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 16
|:|:|:|:|:|:|:|:|:|
Db 1 DWVCNLFKNQWFCNV 16

RESULT 14
US-09-825-517A-83
; Sequence 83, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 83
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-83

Query Match          91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 16
|:|:|:|:|:|:|:|:|:|
Db 1 DWVCNLFKNQWFCNV 16

RESULT 15
US-09-825-517A-108
; Sequence 108, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 108
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-108
```

```
Query Match          91.2%   Score 93;   DB 11;   Length 16;
Best Local Similarity 92.9%   Pred. No. 3e-06;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 DWVCNLFKNQWFCN 14
        //:|||||
Db      1 DWICNLFKNQWFCN 14
```

```
Search completed: September 8, 2004, 14:25:09
Job time : 44.3 secs
```



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-128

Perfect score: 102  
Sequence: 1 DWVNLFRKQWFCNV 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	45.1	215	3	US-09-131-028A-3
2	46	45.1	215	3	US-09-131-028A-13
3	45	44.1	478	4	US-09-137-223A-2
4	44	43.1	612	4	US-09-252-991A-17516
5	43	42.2	326	2	US-08-671-978A-7
6	42.5	41.7	113	4	US-09-530-903C-4
7	42	41.2	582	3	US-08-194-560-2
8	42	41.2	1422	4	US-08-469-260A-82
9	42	41.2	1422	4	US-08-488-446-82
10	42	41.2	1422	4	US-08-467-344A-82
11	42	41.2	2474	4	US-08-265-967C-3
12	42	41.2	2474	4	US-08-305-790B-4
13	41	40.2	21	4	US-09-337-227C-27
14	41	40.2	21	4	US-09-723-251A-27
15	41	40.2	3033	1	US-07-925-695-8
16	41	40.2	3033	1	US-07-925-695-9
17	40.5	39.7	670	4	US-09-587-811A-2
18	40	39.2	70	4	US-09-328-352-7525
19	40	39.2	480	2	US-08-828-488-8
20	40	39.2	480	4	US-09-299-689A-8
21	40	39.2	480	4	US-09-702-705-336
22	40	39.2	480	4	US-09-736-457-336
23	40	39.2	480	4	US-09-614-124B-336
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26	40	39.2	3033	1	US-07-925-695-5
27	39.5	38.7	1043	2	US-08-724-354D-4

28 39.5 38.7 1043 3 US-09-270-984A-4 Sequence 4, Appli  
29 39.5 38.7 1118 2 US-08-724-354D-2 Sequence 2, Appli  
30 39.5 38.7 1118 3 US-09-270-984A-2 Sequence 2, Appli  
31 39 38.2 80 4 US-09-673-395A-447 Sequence 447, App  
32 39 38.2 131 2 US-08-834-655-9 Sequence 9, Appli  
33 39 38.2 131 3 US-08-834-013A-10 Sequence 10, Appli  
34 39 38.2 131 3 US-09-363-574-9 Sequence 9, Appli  
35 39 38.2 131 4 US-09-363-526-9 Sequence 9, Appli  
36 39 38.2 219 4 US-09-439-261-20 Sequence 20, Appli  
37 39 38.2 219 4 US-09-227-613-19 Sequence 19, Appli  
38 39 38.2 227 4 US-08-213-419B-13 Sequence 13, Appli  
39 39 38.2 287 4 US-09-439-261-13 Sequence 13, Appli  
40 39 38.2 287 4 US-09-227-613-14 Sequence 14, Appli  
41 39 38.2 288 4 US-09-439-261-14 Sequence 14, Appli  
42 39 38.2 288 4 US-09-439-261-16 Sequence 16, Appli  
43 39 38.2 288 4 US-09-439-261-18 Sequence 18, Appli  
44 39 38.2 288 4 US-09-227-613-15 Sequence 15, Appli  
45 39 38.2 423 3 US-08-943-714-9 Sequence 9, Appli

#### ALIGNMENTS

RESULT 1  
US-09-131-028A-3  
; Sequence 3, Application US/09131028A  
; Patent No. 6287866  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Mukerji, Pradip  
; APPLICANT: Lemmel, Steven A.  
; APPLICANT: Leonard, Amanda Eun-Yeong  
; APPLICANT: Chaudhary, Sunita  
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS  
; FILE REFERENCE: 6004.US.P1  
; CURRENT APPLICATION NUMBER: US/09/131,028A  
; CURRENT FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: US 08/064,440  
; PRIOR FILING DATE: 1993-05-21  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-131-028A-3

Query Match 45.1%; Score 46; DB 3; Length 215;  
Best Local Similarity 50.0%; Pred. No. 20;  
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCNV 15  
DB 12 WFCGLGRNREFCV 25

RESULT 2  
US-09-131-028A-13  
; Sequence 13, Application US/09131028A  
; Patent No. 6287866  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Mukerji, Pradip  
; APPLICANT: Lemmel, Steven A.  
; APPLICANT: Leonard, Amanda Eun-Yeong  
; APPLICANT: Chaudhary, Sunita  
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS  
; FILE REFERENCE: 6004.US.P1  
; CURRENT APPLICATION NUMBER: US/09/131,028A  
; CURRENT FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: US 08/064,440  
; PRIOR FILING DATE: 1993-05-21  
; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-131-028A-13

Query Match 45.1%; Score 46; DB 3; Length 215;  
Best Local Similarity 50.0%; Pred. No. 20;  
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFCNV 15  
| | | | |  
Db 12 WFCGLRGNEFFCEV 25

RESULT 3  
US-09-137-223A-2  
; Sequence 2, Application US/09137223A  
; Patent No. 6420525  
; GENERAL INFORMATION:  
; APPLICANT: Yee, David P  
; APPLICANT: Deisher, Theresa A  
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR  
; TITLE OF INVENTION: ZGCL-1  
; FILE REFERENCE: 97-18  
; CURRENT APPLICATION NUMBER: US/09/137,223A  
; CURRENT FILING DATE: 1998-08-19  
; PRIOR APPLICATION NUMBER: 06/056,130  
; PRIOR FILING DATE: 1997-08-19  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 478  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-137-223A-2

Query Match 44.1%; Score 45; DB 4; Length 478;  
Best Local Similarity 41.7%; Pred. No. 65;  
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWF 12  
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Db 322 EWLSSVYKQWF 333

RESULT 4  
US-09-252-991A-17516  
; Sequence 17516, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17516  
; LENGTH: 612  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17516

Query Match 43.1%; Score 44; DB 4; Length 612;  
Best Local Similarity 75.0%; Pred. No. 1.2e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 WVCNLFKN 9  
| | | | |  
Db 54 WICNLFAN 61

RESULT 5  
US-08-671-978A-7  
; Sequence 7, Application US/08671978A  
; Patent No. 5959093  
; GENERAL INFORMATION:  
; APPLICANT: Saif, Linda J.  
; APPLICANT: Parwani, Anil  
; APPLICANT: Kim, Wonyong  
; APPLICANT: Chang, Keong-OK  
; TITLE OF INVENTION: ROTAVIRUS GENES  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CALFEE, HALTER & GRISMOLD  
; STREET: 800 SUPERIOR AVENUE, SUITE 1400  
; CITY: CLEVELAND  
; STATE: OHIO  
; COUNTRY: USA  
; ZIP: 44114  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/671.978A  
; FILING DATE:  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: GOLDRICK, MARY E  
; REGISTRATION NUMBER: 34,829  
; REFERENCE/DOCKET NUMBER: 22727/00133  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (216) 622-8200  
; TELEFAX: (216) 241-0816  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 326 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-671-978A-7

Query Match 42.2%; Score 43; DB 2; Length 326;  
Best Local Similarity 50.0%; Pred. No. 84;  
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 3 VCNLFKNQWFCN 14  
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Db 155 LANLILNEWLCN 166

RESULT 6  
US-09-530-903C-4  
; Sequence 4, Application US/09530903C  
; Patent No. 6528285  
; GENERAL INFORMATION:  
; APPLICANT: BIET, Franck  
; APPLICANT: GENATIEMPO, Yves  
; APPLICANT: FREMAUX, Christophe  
; TITLE OF INVENTION: NON RCR LEUCONOSTOC PLASMID CAPABLE OF BEING TRANSFERRED  
; TITLE OF INVENTION: INTO LACTIC ACID BACTERIA; USE AS CLONING AND EXPRESSING TOOL  
; FILE REFERENCE: 004900-178  
; CURRENT APPLICATION NUMBER: US/09/530,903C  
; CURRENT FILING DATE: 2002-07-02  
; PRIOR APPLICATION NUMBER: PCT/FR98/02341  
; PRIOR FILING DATE: 1998-11-02  
; PRIOR APPLICATION NUMBER: FR 97 13 977



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, COMPUTER: IBM PC compatible
, OPERATING SYSTEM: PC-DOS/MS-DOS
, SOFTWARE: PatentIn Release #1.0, Version #1.25
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, CURRENT APPLICATION DATA:
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, APPLICATION NUMBER: US/08/467,344A
, FILING DATE: 07-Jun-1995
, CLASSIFICATION: <Unknown>
,
, PRIOR APPLICATION DATA:
, APPLICATION NUMBER: 08/424,550
, FILING DATE: <Unknown>
, ATTORNEY/AGENT INFORMATION:
,
, NAME: POREMSKI, PRISCILLA E.
, REGISTRATION NUMBER: 33,207
, REFERENCE/DOCKET NUMBER: 5527.PC.01
, TELECOMMUNICATION INFORMATION:
, TELEPHONE: 708-937-6365
, TELEFAX: 708-938-2623
,
, INFORMATION FOR SEQ ID NO: 82:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 1422 amino acids
, TYPE: amino acid
, STRANDEDNESS: single
, TOPOLOGY: linear
,
, MOLECULE TYPE: protein
, SEQUENCE DESCRIPTION: SEQ ID NO: 82:
US-08-467-344A-82

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Query Match 41.2%; Score 42; DB 4; Length 1422;  
Best Local Similarity 28.6%; Pred. No. 5.3e+02;  
Matches 8; Conservative 3; Mismatches 5; Indels

Qy 1 DWV-----CNLFKNQWFCNVL 16  
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Dbb 910 DWIRYAPSTLSMRCTXTHLCXEWFKTL 937

Query Match	41.2%;	Score 42;	DB 4;	Length 1422;
Best Local Similarity	28.6%;	Pred. No. 5.3e+02;		
Matches	8;	Conservative	3;	Mismatches 5; Indels 12; Gaps 1;

Qy 1 DWV-----CNLFKNQWFCNVL 16  
||| :|||  
Db 910 DWIRYAPSTLSMRCXTHLFCXEWFCKTL 937

RESULT 10  
US-08-467-344A-82  
; Sequence 82, Application US/08467344A

Patent No. 6596568  
GENERAL INFORMATION:  
APPLICANT: JOHN N. SIMONS  
TAMI J. PILOT-MATIAS  
GEORGE J. DAMSON  
GEORGE G. SCHLAUDER  
SURESH M. DESAI  
THOMAS P. LEARY  
ANTHONY SCOTT MUERHOFF  
JAMES C. ERKER  
SHERI L. BUIJK  
ISA K. MUSHAWAR

ISA A. MUSAFAHWAR

TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS  
REAGENTS AND METHODS FOR THEIR USE

NUMBER OF SEQUENCES: 716

CORRESPONDENCE ADDRESS:  
ADDRESS: ABBOTT LABORATORIES D377/AP6D  
STREET: 100 ABBOTT PARK ROAD  
CITY: ABBOTT PARK  
STATE: IL  
COUNTRY: USA

COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

RESULT 11  
US-08-265-967C-3  
; Sequence 3, Application US/08265967C  
; Patent No. 6476200  
; GENERAL INFORMATION:  
; APPLICANT: SABATINI, DAVID M.  
; APPLICANT: ERDJUMENT-BROMAGE, HEDIYE  
; APPLICANT: LUI, MARY  
; APPLICANT: TEMST, PAUL  
; APPLICANT: SNYDER, SOLOMON H.  
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12  
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BANNER & ALLEGRETTI, LTD  
; STREET: 1001 G STREET, N.W., 11TH FLOOR  
; CITY: WASHINGTON  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20001-4597  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/265,967C  
; FILING DATE: 27-JUN-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KAGAN, SARAH A.  
; REGISTRATION NUMBER: 32,141  
; REFERENCE/DOCKET NUMBER: 01107.46363  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-508-9100  
; TELEFAX: 202-508-9299  
; TELEX: 197430 BBMB UT



```
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-365-967C-3

Query Match          41.2%; Score 42; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 9.4e+02;
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      5 NLFKNQWFCN 14
Db      1223 NILKNWYCS 1232

RESULT 12
US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROWAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO PKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/305,790B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBMB UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-305-790B-4

Query Match          41.2%; Score 42; DB 4; Length 2474;
Best Local Similarity 50.0%; Pred. No. 9.4e+02;
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
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QY      5 NLFKNQWFCN 14
Db      1223 NILKNWYCS 1232

RESULT 13
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
; US-09-337-227C-27

Query Match          40.2%; Score 41; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 9.6;
Matches 6; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      2 WVCNLFKNQWFC 13
Db      3 WVCRAGPLQWLC 14

RESULT 14
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
; US-09-723-251A-27

Query Match          40.2%; Score 41; DB 4; Length 21;
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Best Local Similarity 50.0%; Pred. No. 9.6;  
Matches 6; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFC 13  
|||  
Db 3 WVCRAGPLQWLC 14

## RESULT 15

US-07-925-695-8  
; Sequence 8, Application US/07925695  
; Patent No. 5428145  
; GENERAL INFORMATION:  
; APPLICANT: OKAMOTO, Hiroaki  
; APPLICANT: NAKAMURA, Tetsuo  
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOME,  
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, ANTIGEN, ANTIBODY AND  
; TITLE OF INVENTION: DETECTION SYSTEMS  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young  
; STREET: 1850 M Street, N.W., Suite 800  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: US  
; ZIP: 20036  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/925,695  
; FILING DATE: 19920807  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 287402/91  
; FILING DATE: 09-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 360441/91  
; FILING DATE: 05-DEC-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Weillacher, Robert G.  
; REGISTRATION NUMBER: 20,531  
; REFERENCE/DOCKET NUMBER: 06/87-48009  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 659-2811  
; TELEFAX: (202) 659-1462  
; TELEX: WUI 64470  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 3033 amino acids  
; TYPE: AMINO ACID  
; STRANDEDNESS: unknown  
; TOPOLOGY: linear  
US-07-925-695-8

Query Match 40.2%; Score 41; DB 1; Length 3033;  
Best Local Similarity 47.4%; Pred. No. 1.6e+03;  
Matches 9; Conservative 3; Mismatches 3; Indels 4; Gaps 2;

QY 1 DWVCNL---FKNQWFCNVL 16  
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Db 1986 DWVCSILTDFKN-WLSSKL 2003

Search completed: September 8, 2004, 12:58:39  
Job time : 12.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-127

Perfect score: 99  
Sequence: 1 DWVCELLKNQWFCNVL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: /cgn2\_6/ptodata/1/pubpaa/US05\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	90	90.9	16	11	US-09-825-517A-59
3	90	90.9	16	11	US-09-825-517A-128
4	88	88.9	16	11	US-09-825-517A-50
5	88	88.9	16	11	US-09-825-517A-126
6	88	88.9	16	11	US-09-825-517A-147
7	87	87.9	16	11	US-09-825-517A-80
8	87	87.9	16	11	US-09-825-517A-116
9	86	86.9	16	11	US-09-825-517A-100
10	86	86.9	16	11	US-09-825-517A-119
11	85	85.9	16	11	US-09-825-517A-52
12	85	85.9	16	11	US-09-825-517A-75
13	85	85.9	16	11	US-09-825-517A-150
14	84	84.8	16	11	US-09-825-517A-65
15	84	84.8	16	11	US-09-825-517A-148

16	83	83.8	16	11	US-09-825-517A-42	Sequence 42, Appl
17	83	83.8	16	11	US-09-825-517A-129	Sequence 129, App
18	83	83.8	16	11	US-09-825-517A-139	Sequence 139, App
19	82	82.8	16	11	US-09-825-517A-61	Sequence 61, Appl
20	82	82.8	16	11	US-09-825-517A-78	Sequence 78, Appl
21	82	82.8	16	11	US-09-825-517A-86	Sequence 86, Appl
22	82	82.8	16	11	US-09-825-517A-124	Sequence 124, App
23	82	82.8	16	11	US-09-825-517A-137	Sequence 137, App
24	82	82.8	16	11	US-09-825-517A-146	Sequence 146, App
25	82	82.8	16	11	US-09-825-517A-149	Sequence 149, App
26	81	81.8	16	11	US-09-825-517A-56	Sequence 56, Appl
27	81	81.8	16	11	US-09-825-517A-58	Sequence 58, Appl
28	81	81.8	16	11	US-09-825-517A-62	Sequence 62, Appl
29	81	81.8	16	11	US-09-825-517A-71	Sequence 71, Appl
30	81	81.8	16	11	US-09-825-517A-74	Sequence 74, Appl
31	81	81.8	16	11	US-09-825-517A-81	Sequence 81, Appl
32	81	81.8	16	11	US-09-825-517A-83	Sequence 83, Appl
33	81	81.8	16	11	US-09-825-517A-108	Sequence 108, App
34	81	81.8	16	11	US-09-825-517A-109	Sequence 109, App
35	81	81.8	16	11	US-09-825-517A-120	Sequence 120, App
36	81	81.8	16	11	US-09-825-517A-141	Sequence 141, App
37	80	80.8	16	11	US-09-825-517A-38	Sequence 38, Appl
38	80	80.8	16	11	US-09-825-517A-69	Sequence 69, Appl
39	79	79.8	16	11	US-09-825-517A-41	Sequence 41, Appl
40	79	79.8	16	11	US-09-825-517A-45	Sequence 45, Appl
41	79	79.8	16	11	US-09-825-517A-46	Sequence 46, Appl
42	79	79.8	16	11	US-09-825-517A-49	Sequence 49, Appl
43	79	79.8	16	11	US-09-825-517A-77	Sequence 77, Appl
44	79	79.8	16	11	US-09-825-517A-121	Sequence 121, App
45	79	79.8	16	11	US-09-825-517A-151	Sequence 151, App

#### ALIGNMENTS

##### RESULT 1

US-09-825-517A-127  
; Sequence 127, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Isaac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 127  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-127

Query Match 100.0%; Score 99; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred.No. 3.4e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16  
|||  
DB 1 DWVCELLKNQWFCNVL 16

##### RESULT 2

US-09-825-517A-59  
; Sequence 59, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCEYFKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 3
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCEYFKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 4
US-09-825-517A-50
; Sequence 50, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 50
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-50

Query Match          88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.2e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCNLFKNQWFCNVL 16
   ||||| ||||| |||||

RESULT 5
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match          88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
   ||||| ||||| |||||
Db 1 DWVCEWLNQWFCNVL 16
   ||||| ||||| |||||

RESULT 6
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
```

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEIFKNQWFCNVL 16

RESULT 7
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      87.9%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.6e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEIFKNQWFCNVL 16

RESULT 8
US-09-825-517A-116
; Sequence 116, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 116
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-116

Query Match      87.9%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.6e-05;

Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEIFKNQWFCNVL 16

RESULT 9
US-09-825-517A-100
; Sequence 100, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-100

Query Match      86.9%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16
Db 1 DWVCEIFKNQWFCNVL 16

RESULT 10
US-09-825-517A-119
; Sequence 119, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 119
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-119

Query Match      86.9%; Score 86; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 2.3e-05;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNV 15
Db 1 DWVCNLFKNQWFCNV 15
```

RESULT 11  
US-09-825-517A-52  
; Sequence 52, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 52  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-52

Query Match 85.9%; Score 85; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 3.1e-05;  
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16  
|||||:|||||:  
Db 1 DWVCNLFKNQWFCNVL 16

RESULT 12  
US-09-825-517A-75  
; Sequence 75, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 75  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-75

Query Match 85.9%; Score 85; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 3.1e-05;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16  
|||||:|||||:  
Db 1 DWVCEFFKQWFCNVL 16

RESULT 13  
US-09-825-517A-150  
; Sequence 150, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 150  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-150

Query Match 85.9%; Score 85; DB 11; Length 16;  
Best Local Similarity 75.0%; Pred. No. 3.1e-05;  
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16  
|||||:|||||:  
Db 1 DWVCEFFKQWFCNVL 16

RESULT 14  
US-09-825-517A-65  
; Sequence 65, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 65  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-65

Query Match 84.8%; Score 84; DB 11; Length 16;  
Best Local Similarity 75.0%; Pred. No. 4.3e-05;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16  
|||||:|||||:  
Db 1 DWVCELVRAQWFCNVL 16

RESULT 15  
US-09-825-517A-148  
; Sequence 148, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 148  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-148

Query Match 84.8%; Score 84; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 4.3e-05;  
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCELLKNQWFCNVL 16  
| | | | | : | | | | |  
Db 1 DWVCEWLKHQWFCNAL 16

Search completed: September 8, 2004, 14:25:09  
Job time : 44.3 secs









```

; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-414-926A-5

Query Match 42.4%; Score 42; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCELLKNOW 11
Db 307 WVCEPKHEW 316

RESULT 7
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: September 10, 1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-926-922-5

Query Match 42.4%; Score 42; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCELLKNOW 11
Db 307 WVCEPKHEW 316

RESULT 8

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US-09-253-682-5
; Sequence 5, Application US/09253682
; Patent No. 6040170
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: September 10, 1997
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-253-682-5

Query Match 42.4%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCELLKNOW 11
Db 307 WVCEPKHEW 316

RESULT 9
US-09-527-657-5
; Sequence 5, Application US/09527657
; Patent No. 6291236
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/09/527,657  
FILING DATE: 17-Mar-2000  
CLASSIFICATION: <unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/926,922  
FILING DATE: September 10, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Cserr, Luann  
REGISTRATION NUMBER: 31,822  
REFERENCE/DOCKET NUMBER: AVIR 11A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 510-834-1448  
TELEFAX: 510-839-7810  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 399 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
US-09-527-657-5

Query Match 42.4%; Score 42; DB 3; Length 399;  
Best Local Similarity 60.0%; Pred. NO. 76;  
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCELLKNOW 11  
||| | | | : |  
Db 307 WVCEPKHEW 316

RESULT 10  
US-09-892-100-5  
Sequence 5, Application US/09892100  
Patent No. 6635477  
GENERAL INFORMATION:  
APPLICANT: Spaete, Richard  
Cha, Tai-An  
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Luann Cserr Attorney at Law  
STREET: 750 Arimo Avenue  
CITY: Oakland  
STATE: CA  
COUNTRY: USA  
ZIP: 94610  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/892,100  
FILING DATE: 26-Jun-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/527,657  
FILING DATE: 17-Mar-2000  
APPLICATION NUMBER: US/08/926,922  
FILING DATE: September 10, 1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Cserr, Luann  
REGISTRATION NUMBER: 31,822  
REFERENCE/DOCKET NUMBER: AVIR 11A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 510-834-1448  
TELEFAX: 510-839-7810  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 399 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
US-09-892-100-5

Query Match 42.4%; Score 42; DB 4; Length 399;  
Best Local Similarity 60.0%; Pred. NO. 76;  
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCELLKNOW 11  
||| | | | : |  
Db 307 WVCEPKHEW 316

RESULT 11  
US-07-603-133B-22  
Sequence 22, Application US/07603133B  
Patent No. 5298244  
GENERAL INFORMATION:  
APPLICANT: Redmond, Mark J.  
APPLICANT: Ijaz, Mohammed K.  
APPLICANT: Parker, Michael D.  
TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR  
TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE  
NUMBER OF SEQUENCES: 30  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Morrison & Foerster  
STREET: 545 Middlefield Road, Suite 200  
CITY: Menlo Park  
STATE: CA  
COUNTRY: USA  
ZIP: 94025  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/603,133B  
FILING DATE: 19901025  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Robins, Roberta L.  
REGISTRATION NUMBER: 33,208  
REFERENCE/DOCKET NUMBER: 9313-0004.00  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 327-7250  
TELEFAX: (415) 327-2951  
TELEX: 706141  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 326 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-603-133B-22

Query Match 41.4%; Score 41; DB 1; Length 326;  
Best Local Similarity 41.7%; Pred. NO. 88;  
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 3 VCELLKNQWFCN 14  
: | | : | |  
Db 155 LADJILNEWLCN 166

RESULT 12  
US-07-603-133B-23  
Sequence 23, Application US/07603133B  
Patent No. 5298244  
GENERAL INFORMATION:  
APPLICANT: Redmond, Mark J.  
APPLICANT: Ijaz, Mohammed K.  
APPLICANT: Parker, Michael D.



Qy 3 VCELLKNQWFCN 14  
: : : : :  
Db 155 LADLILNEWLCN 166

RESULT 15  
US-07-603-133B-27  
; Sequence 27, Application US/07603133B  
; Patent No. 5298244  
; GENERAL INFORMATION:  
; APPLICANT: Redmond, Mark J.  
; APPLICANT: Ijaz, Mohammed K.  
; APPLICANT: Parker, Michael D.  
; TITLE OF INVENTION: ASSEMBLED VIRAL PARTICLES AND THEIR  
; TITLE OF INVENTION: USE IN A VACCINE TO ROTAVIRAL DISEASE  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Morrison & Foerster  
; STREET: 545 Middlefield Road, Suite 200  
; CITY: Menlo Park  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94025  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA: US/07603.133B  
; APPLICATION NUMBER: US/07603.133B  
; FILING DATE: 19901025  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Robins, Roberta L.  
; REGISTRATION NUMBER: 33,208  
; REFERENCE/DOCKET NUMBER: 9313-0004.00  
; TELEPHONE: (415) 327-7250  
; TELEFAX: (415) 327-2951  
; TELEX: 706141  
; INFORMATION FOR SEQ ID NO: 27:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 326 amino acids  
; TYPE: AMINO ACID  
; STRANDEDNESS: unknown  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
US-07-603-133B-27

Query Match 41.4%; Score 41; DB 1; Length 326;  
Best Local Similarity 41.7%; Pred. No. 88;  
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 3 VCELLKNQWFCN 14  
: : : : :  
Db 155 LADLILNEWLCN 166

Search completed: September 8, 2004, 12:58:39  
Job time : 13.2 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-126  
Perfect score: 111  
Sequence: 1 DWCEWLKNQWNCNVL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
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11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	111	100.0	16	11	US-09-825-517A-126
2	92	82.9	16	11	US-09-825-517A-148
3	90	81.1	16	11	US-09-825-517A-103
4	90	81.1	16	11	US-09-825-517A-146
5	89	80.2	16	11	US-09-825-517A-125
6	89	80.2	16	11	US-09-825-517A-141
7	89	80.2	16	11	US-09-825-517A-142
8	88	79.3	16	11	US-09-825-517A-59
9	88	79.3	16	11	US-09-825-517A-112
10	88	79.3	16	11	US-09-825-517A-122
11	88	79.3	16	11	US-09-825-517A-127
12	88	79.3	16	11	US-09-825-517A-140
13	88	79.3	16	11	US-09-825-517A-144
14	87	78.4	16	11	US-09-825-517A-80
15	86	77.5	16	11	US-09-825-517A-54

16	86	77.5	16	11	US-09-825-517A-130	Sequence 130, App
17	86	77.5	16	11	US-09-825-517A-138	Sequence 138, App
18	86	77.5	16	11	US-09-825-517A-143	Sequence 143, App
19	84	75.7	16	11	US-09-825-517A-117	Sequence 117, App
20	84	75.7	16	11	US-09-825-517A-139	Sequence 139, App
21	84	75.7	16	11	US-09-825-517A-147	Sequence 147, App
22	83	74.8	16	11	US-09-825-517A-68	Sequence 68, App
23	82	73.9	16	11	US-09-825-517A-115	Sequence 115, App
24	82	73.9	16	11	US-09-825-517A-137	Sequence 137, App
25	81	73.0	16	11	US-09-825-517A-75	Sequence 75, App
26	81	73.0	16	11	US-09-825-517A-116	Sequence 116, App
27	81	73.0	16	11	US-09-825-517A-150	Sequence 150, App
28	79	71.2	16	11	US-09-825-517A-49	Sequence 49, App
29	79	71.2	16	11	US-09-825-517A-101	Sequence 101, App
30	79	71.2	16	11	US-09-825-517A-109	Sequence 109, App
31	79	71.2	16	11	US-09-825-517A-128	Sequence 128, App
32	79	71.2	16	11	US-09-825-517A-151	Sequence 151, App
33	78	70.3	16	11	US-09-825-517A-76	Sequence 76, App
34	78	70.3	16	11	US-09-825-517A-78	Sequence 78, App
35	78	70.3	16	11	US-09-825-517A-86	Sequence 86, App
36	78	70.3	16	11	US-09-825-517A-105	Sequence 105, App
37	77	69.4	16	11	US-09-825-517A-50	Sequence 50, App
38	77	69.4	16	11	US-09-825-517A-65	Sequence 65, App
39	76	68.5	16	11	US-09-825-517A-90	Sequence 90, App
40	76	68.5	16	11	US-09-825-517A-95	Sequence 95, App
41	76	68.5	16	11	US-09-825-517A-104	Sequence 104, App
42	75	67.6	16	11	US-09-825-517A-67	Sequence 67, App
43	75	67.6	16	11	US-09-825-517A-82	Sequence 82, App
44	75	67.6	16	11	US-09-825-517A-100	Sequence 100, App
45	75	67.6	16	11	US-09-825-517A-118	Sequence 118, App

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-126  
; Sequence 126, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Ladner, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DXX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 126  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-126

Query Match 100.0%; Score 111; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 6.7e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWCEWLKNQWNCNVL 16  
|||||  
Db 1 DWCEWLKNQWNCNVL 16

RESULT 2  
US-09-825-517A-148  
; Sequence 148, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match      82.9%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00013;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 1 DWVCEWLKHQWFCNAL 16

RESULT 3
US-09-825-517A-103
; Sequence 103, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-103

Query Match      81.1%; Score 90; DB 11; Length 16;
Best Local Similarity 85.7%; Pred. No. 0.00022;
Matches 12; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCN 14
Db 1 NWVCEWLKPQWNCN 14

RESULT 4
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      81.1%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00022;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 1 DWVCEWLKQWFCNSL 16

RESULT 5
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      80.2%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.00029;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 6
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
```



```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match      80.2%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKNQWQCNVL 16
Db 1 DWVCEWLKNQWQCNVL 16

RESULT 7
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      80.2%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.00029;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKNQWQCNVL 16
Db 1 DWVCEWLKNQWQCNVL 16

RESULT 8
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match      79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
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Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKNQWQCNVL 16
Db 1 DWVCEVFNQWFCNVL 16

RESULT 9
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKNQWQCNVL 16
Db 1 DWVCEWLKNQWQCNIL 16

RESULT 10
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKNQWQCNVL 16
Db 1 DWVCEWLKNQWQCNIL 16
```

```

RESULT 11
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match          79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 0.00039;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKNQWMCNVL 16
   |||||:||||:||||
Db 1 DWCELLKNQWFCNVL 16

RESULT 12
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match          79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEWLKNQWMCNVL 16
   |||||:||||:||||
Db 1 DWCEWLKNQWMCNVL 16

RESULT 13
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

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; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match          79.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00039;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEWLKNQWMCNVL 16
   |||||:||||:||||
Db 1 DWCEWLKPQWYCNLSL 16

RESULT 14
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match          78.4%; Score 87; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00051;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKNQWMCNVL 16
   |||||:||||:||||
Db 1 DWCEFIKNQWMCNVL 16

RESULT 15
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
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Query Match      77.5%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00067;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
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Qy      1 DWVCEWLKNQWNCNVL 16
        ||||| || ||:|
Db      1 DWVCEWLKNQWACNML 16
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Search completed: September 8, 2004, 14:25:09
Job time : 45.3 secs
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-126  
Perfect score: 111  
Sequence: 1 DWVCEWLKNQWNCNVL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A-COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B-COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A-COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B-COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/6CTUS-COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	55	49.5	421	2	US-08-807-263-4
2	55	49.5	532	2	US-08-899-324-33
3	55	49.5	532	3	US-08-329-892B-33
4	50	45.0	557	1	US-08-309-341-2
5	50	45.0	557	1	US-08-309-341-4
6	50	45.0	557	1	US-08-608-267-2
7	50	45.0	557	1	US-08-608-267-4
8	50	45.0	557	1	US-08-608-452-2
9	50	45.0	557	1	US-08-608-452-4
10	50	45.0	557	1	US-08-608-224-2
11	50	45.0	557	1	US-08-608-224-4
12	50	45.0	557	2	US-08-967-149-2
13	50	45.0	557	2	US-08-967-149-4
14	48	43.2	423	3	US-08-943-714-9
15	48	43.2	1844	4	US-08-851-567B-53
16	48	43.2	2504	4	US-08-851-567B-12
17	48	43.2	2504	4	US-08-817-514A-8
18	47	42.3	71	4	US-09-621-976-5666
19	46	41.4	491	1	US-09-640-305-4
20	46	41.4	491	1	US-08-360-673-4
21	45	40.5	126	4	US-09-225-322B-4
22	45	40.5	126	4	US-09-764-304-4
23	45	40.5	141	4	US-08-225-322B-2
24	45	40.5	141	4	US-09-764-304-2
25	45	40.5	358	4	US-09-489-039A-8715
26	45	40.5	479	4	US-09-252-991A-32884
27	45	40.5	536	4	US-09-292-225-21

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28 45 40.5 555 4 US-09-292-225-15 Sequence 15, Appl
29 45 40.5 555 4 US-09-292-225-18 Sequence 18, Appl
30 44 39.6 138 3 US-08-930-894-5 Sequence 5, Appl
31 44 39.6 139 3 US-08-930-894-6 Sequence 6, Appl
32 44 39.6 139 3 US-08-930-894-7 Sequence 7, Appl
33 44 39.6 140 3 US-08-930-894-7 Sequence 4, Appl
34 44 39.6 485 3 US-08-930-894-2 Sequence 2, Appl
35 43.5 39.2 106 4 US-09-252-991A-21103 Sequence 21103, A
36 43.5 39.2 417 4 US-09-252-991A-28413 Sequence 28413, A
37 43 38.7 24 1 US-08-484-635-86 Sequence 86, Appl
38 43 38.7 24 2 US-08-484-631-86 Sequence 86, Appl
39 43 38.7 24 2 US-08-827-570-86 Sequence 86, Appl
40 43 38.7 65 4 US-09-540-236-2627 Sequence 2627, Ap
41 43 38.7 73 4 US-09-489-039A-9120 Sequence 9120, Ap
42 43 38.7 169 3 US-08-928-941D-35 Sequence 35, Appl
43 43 38.7 169 4 US-09-280-590A-45 Sequence 45, Appl
44 43 38.7 169 4 US-09-892-398-45 Sequence 45, Appl
45 43 38.7 170 4 US-09-252-991A-21369 Sequence 21369, A

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## ALIGNMENTS

```

RESULT 1
US-08-807-263-4
; Sequence 4, Application US/08807263C
; Patent No. 5985627
; GENERAL INFORMATION:
; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stenicke, Henning
; APPLICANT: Sorensen, Steen B.
; APPLICANT: Breddam, Klaus
; TITLE OF INVENTION: MODIFIED CARBOXYPEPTIDASE
; FILE REFERENCE: 8648.71us01-no4
; CURRENT APPLICATION NUMBER: US/08/807,263C
; CURRENT FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 421
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-08-807-263-4

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Query Match 49.5%; Score 55; DB 2; Length 421;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 8; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

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Qy 1 DWVCEWLKNQWNCNVL 16
|::|||::|::|
Db 338 DFICNLGNKAWTDVL 353

```

```

RESULT 2
US-08-899-324-33
; Sequence 33, Application US/08899324
; Patent No. 5945329
; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus
; APPLICANT: Keiland-Brandt, Morten
; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stenicke, Henning
; APPLICANT: Wagner, Fred
; TITLE OF INVENTION: CUSTOMIZED PROTEASES
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 5945329west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.

```



```
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-309-341-2

Query Match      45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

RESULT 5
US-08-309-341-4
; Sequence 4, Application US/08309341
; Patent No. 5594119
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5594119o No. 5594119disk of No. 5594119th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/309,341
; FILING DATE: 16-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Aspergillus Niger
US-08-309-341-4

Query Match      45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred. No. 29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCEWLKNQWNCNVL 16
Db 472 DFICNLGNKAWTEAL 487

RESULT 6
US-08-608-267-2
; Sequence 2, Application US/08608267
; Patent No. 5688663
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5688663o No. 5688663disk of No. 5688663th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/608,267
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; QUERY MATCH      45.0%; Score 50; DB 1; Length 557;
; BEST LOCAL SIMILARITY 43.8%; Pred. No. 29;
; MATCHES 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
; QY 1 DWVCEWLKNQWNCNVL 16
; DB 472 DFICNLGNKAWTEAL 487
; RESULT 7
; US-08-608-267-4
; Sequence 4, Application US/08608267
; Patent No. 5688663
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5688663o No. 5688663disk of No. 5688663th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/608,267
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
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```

/ APPLICATION NUMBER: US 08/309,341
/ FILING DATE: 20-SEP-1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Lowney, Karen A.
/ REGISTRATION NUMBER: 31,274
/ REFERENCE/DOCKET NUMBER: 4247,000-US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 212 867 0123
/ TELEFAX: 212 867 0298
/ INFORMATION FOR SEQ ID NO: 4:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 557 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ ORIGINAL SOURCE:
/ ORGANISM: Aspergillus Niger
/
US-08-608-267-4

```

```

Query Match 45.0%; Score 50; DB 1; Length 557;
Best Local Similarity 43.8%; Pred.No.29;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

```

```

QY 1 DNYCEMLQNWCVNL 16
   |::|||::|
Db 472 DFICNMLGNKAWTEAL 487

```

```

RESULT 8
US-08-608-452-2
/ Sequence 2, Application US/08608452
/ Patent No. 5693510
/ GENERAL INFORMATION:
/ APPLICANT: Yaver, Debbie Sue
/ APPLICANT: Thompson, Sheryl Ann
/ TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
/ NUMBER OF SEQUENCES: 4
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: No. 56935100 No. 5693510disk of No. 5693510th America, Inc.
/ STREET: 405 Lexington Avenue, Suite 6400
/ CITY: New York
/ STATE: New York
/ COUNTRY: U.S.A.
/ ZIP: 10174-6401
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/608,452
/ FILING DATE: 28-FEB-1996
/ CLASSIFICATION: 536
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/309,341
/ FILING DATE: 20-SEP-1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Lowney, Karen A.
/ REGISTRATION NUMBER: 31,274
/ REFERENCE/DOCKET NUMBER: 4247,000-US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 212 867 0123
/ TELEFAX: 212 867 0298
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 557 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ ORIGINAL SOURCE:
/ ORGANISM: Aspergillus Niger

```



```
;
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
;
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 57053760 No. 5705376disk of No. 5705376th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/608,224
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORGANISM: Aspergillus Niger
;
; US-08-608-224-2
;
; Query Match 45.0%; Score 50; DB 1; Length 557;
; Best Local Similarity 43.8%; Pred. No. 29;
; Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
;
; QY 1 DWVCEWLKNQWNCNVL 16
; Db :|:|:|:|:|:|
; 472 DFICNWLGNKAWTEAL 487
;
; RESULT 11
; US-08-608-224-4
; Sequence 4, Application US/08608224
; Patent No. 5705376
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 57053760 No. 5705376disk of No. 5705376th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/608,224
; FILING DATE: 28-FEB-1996
; CLASSIFICATION: 435
;
; US-08-608-224-2
;
; Query Match 45.0%; Score 50; DB 1; Length 557;
; Best Local Similarity 43.8%; Pred. No. 29;
; Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
;
; QY 1 DWVCEWLKNQWNCNVL 16
; Db :|:|:|:|:|:|
; 472 DFICNWLGNKAWTEAL 487
;
; RESULT 12
; US-08-967-149-2
; Sequence 2, Application US/08967149
; Patent No. 5939305
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 59393050 No. 5939305disk of No. 5939305th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/967,149
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608,452
; FILING DATE: 28-FEB-1996
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
```

```
;
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORGANISM: Aspergillus Niger
;
; US-08-608-224-4
;
; Query Match 45.0%; Score 50; DB 1; Length 557;
; Best Local Similarity 43.8%; Pred. No. 29;
; Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
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; QY 1 DWVCEWLKNQWNCNVL 16
; Db :|:|:|:|:|:|
; 472 DFICNWLGNKAWTEAL 487
;
; RESULT 12
; US-08-967-149-2
; Sequence 2, Application US/08967149
; Patent No. 5939305
; GENERAL INFORMATION:
; APPLICANT: Yaver, Debbie Sue
; APPLICANT: Thompson, Sheryl Ann
; TITLE OF INVENTION: GENE ENCODING CARBOXYPEPTIDASE OF ASPERGILLUS NIGER
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 59393050 No. 5939305disk of No. 5939305th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6400
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/967,149
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/608,452
; FILING DATE: 28-FEB-1996
; APPLICATION NUMBER: US 08/309,341
; FILING DATE: 20-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Lowney, Karen A.
; REGISTRATION NUMBER: 31,274
; REFERENCE/DOCKET NUMBER: 4247.000-US
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 557 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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RESULT 14
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Klotz, Elizabeth
; APPLICANT: Glotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-943-714-9
Query Match 43.2%; Score 48; DB 3; Length 423;
Best Local Similarity 66.7%; Fred. No. 40;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKN 9
Db 340 DWICNWLGN 348

RESULT 15
US-08-851-567B-53
; Sequence 53, Application US/08851567B
; Patent No. 6528484
; GENERAL INFORMATION:
; APPLICANT: Ensign, Jerald C
; APPLICANT: Bowen, David J
; APPLICANT: Petell, James
; APPLICANT: Fatig, Raymond
; APPLICANT: Schoonover, Sue
; APPLICANT: ffrench-Constant, Richard
; APPLICANT: Rocheleau, Thomas A.
; APPLICANT: Blackburn, Michael B.
; APPLICANT: Hey, Timothy D.
; APPLICANT: Merlo, Donald J.
; APPLICANT: Orr, Gregory L.
; APPLICANT: Roberts, Jean L.

```

APPLICANT: Strickland, James A.  
APPLICANT: Guo, Lining  
APPLICANT: Ciche, Todd A.  
APPLICANT: Sukhapinda, Kitisi  
TITLE OF INVENTION: Insecticidal Protein Toxins From Photorhabdus  
NUMBER OF SEQUENCES: 88  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dow AgroSciences Patent Department  
STREET: 9330 Zionsville Road  
CITY: Indianapolis  
STATE: IN  
COUNTRY: US  
ZIP: 46268  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/851,567B  
FILING DATE: 05-MAY-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/063,615  
FILING DATE: 18-MAY-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/395,497  
FILING DATE: 28-FEB-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/007,255  
FILING DATE: 06-NOV-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/608,423  
FILING DATE: 28-FEB-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/705,484  
FILING DATE: 28-AUG-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J  
REGISTRATION NUMBER: 27386  
REFERENCE/DOCKET NUMBER: 960296.93804  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 608-251-5000  
TELEFAX: 608-251-9166  
INFORMATION FOR SEQ ID NO: 53:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1844 amino acids  
TYPE: amino acids  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-851-567B-53

Query Match 43.2%; Score 48; DB 4; Length 1844;  
Best Local Similarity 54.5%; Pred. No. 1.8e+02;  
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKNQW 12  
| : ||| |  
Db 561 WITQWLKTKW 571

Search completed: September 8, 2004, 12:58:38  
Job time : 13.2 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-125

Perfect score: 103  
Sequence: 1 DWVCEWLKMQWACNVL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
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15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-125
2	103	100.0	16	11	Sequence 125, App
3	102	99.0	16	11	Sequence 142, App
4	102	99.0	16	11	Sequence 112, App
5	102	99.0	16	11	Sequence 122, App
6	100	97.1	16	11	Sequence 140, App
7	100	97.1	16	11	Sequence 54, Appl
8	100	97.1	16	11	US-09-825-517A-138
9	93	90.3	16	11	Sequence 143, App
10	93	90.3	16	11	Sequence 49, Appl
11	93	90.3	16	11	Sequence 141, App
12	90	87.4	16	11	Sequence 151, App
13	89	86.4	16	11	Sequence 101, App
14	86	83.5	16	11	Sequence 126, App
15	85	82.5	16	11	Sequence 148, App
					Sequence 146, App

US-09-825-517A-125  
; Sequence 125, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Isaac J  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 125  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-125

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.8e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16  
|||||  
Db 1 DWVCEWLKMQWACNVL 16

RESULT 2  
US-09-825-517A-142  
; Sequence 142, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

## ALIGNMENTS

RESULT 1  
US-09-825-517A-125  
; Sequence 125, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Isaac J  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 125  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-125

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.8e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNVL 16  
|||||  
Db 1 DWVCEWLKMQWACNVL 16

RESULT 2  
US-09-825-517A-142  
; Sequence 142, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVIL 16
DB      1 DWVCEWLKMQWACNVIL 16

RESULT 3
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVIL 16
DB      1 DWVCEWLKMQWACNVIL 16

RESULT 4
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVIL 16
DB      1 DWVCEWLKMQWACNVIL 16

RESULT 5
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKMQWACNVIL 16
DB      1 DWVCEWLKMQWACNVIL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNVL 16
Db 1 DWCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNVL 16
Db 1 DWCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNVL 16
Db 1 DWCEWLKMQWACNVL 16

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.2e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNVL 16
Db 1 DWCEFLKMQWACNVL 16

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNVL 16
Db 1 DWCEWLKMQWFCNAL 16
```

## RESULT 11

US-09-825-517A-151  
; Sequence 151, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825.517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 151  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-151

Query Match 90.3%; Score 93; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 8.2e-06;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
| | | | | | | | | | | | | | | |  
DB 1 DWVCEFLKMQWACNVL 16

## RESULT 12

US-09-825-517A-101  
; Sequence 101, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825.517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 101  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-101

Query Match 87.4%; Score 90; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 2.1e-05;  
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
| | | | | | | | | | | | | | | |  
DB 1 DWVCEWSKMQWSCNAL 16

## RESULT 13

US-09-825-517A-126  
; Sequence 126, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825.517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 126  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-126

Query Match 86.4%; Score 89; DB 11; Length 16;  
Best Local Similarity 87.5%; Pred. No. 2.8e-05;  
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
| | | | | | | | | | | | | | | |  
DB 1 DWVCEWLKMQWACNVL 16

## RESULT 14

US-09-825-517A-148  
; Sequence 148, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825.517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 148  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-148

Query Match 83.5%; Score 86; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 7e-05;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
| | | | | | | | | | | | | | | |  
DB 1 DWVCEWLKHQWFCNAL 16

## RESULT 15

US-09-825-517A-146  
; Sequence 146, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825.517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03



```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
```

```
Query Match      82.5%   Score 85;   DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKXQWACNVL 16
      |||||
Db      1 DWVCEWLKQWFCNSL 16
```

```
Search completed: September 8, 2004, 14:25:08
Job time : 44.3 secs
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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-125  
Perfect score: 103  
Sequence: 1 DWCEWLKMQWACNVL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
1: /cgm2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgm2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgm2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgm2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgm2\_6/ptodata/2/iaa/PTCUS\_COMB.pep.\*  
6: /cgm2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.7	677	3	US-09-061-768A-4
2	46	44.7	677	4	US-09-764-246-4
3	46	44.7	1129	4	US-09-252-991A-28552
4	45	43.7	71	4	US-09-621-976-5666
5	44.5	43.2	491	1	US-09-640-305-4
6	44.5	43.2	491	1	US-08-360-673-4
7	44	42.7	89	4	US-09-621-976-7155
8	44	42.7	423	3	US-08-943-714-9
9	43	41.7	428	4	US-08-489-039A-12688
10	43	41.7	501	2	US-08-288-508C-2
11	43	41.7	501	4	US-08-981-490B-1
12	42	40.8	21	4	US-09-337-227C-27
13	42	40.8	21	4	US-09-723-251A-27
14	41	39.8	63	4	US-09-497-491-47
15	41	39.8	170	4	US-09-252-991A-21369
16	41	39.8	208	4	US-09-252-991A-32166
17	41	39.8	382	4	US-09-252-991A-25095
18	41	39.8	393	1	US-08-689-974-4
19	41	39.8	393	3	US-09-058-376-4
20	41	39.8	1956	3	US-08-843-417-10
21	41	39.8	1956	4	US-09-527-013-10
22	40.5	39.3	20	2	US-07-894-063A-6
23	40.5	39.3	30	1	US-08-262-037-16
24	40.5	39.3	38	1	US-08-262-037-95
25	40.5	39.3	47	1	US-08-262-037-96
26	40.5	39.3	106	3	US-08-444-818-24
27	40.5	39.3	176	3	US-08-444-818-28

28	40.5	39.3	360	4	US-08-850-328-4	Sequence 4, Appli
29	40.5	39.3	516	3	US-08-867-611-6	Sequence 6, Appli
30	40.5	39.3	516	4	US-09-690-359-6	Sequence 6, Appli
31	40.5	39.3	516	5	PCT-US92-06965A-11	Sequence 11, Appli
32	40.5	39.3	798	3	US-08-867-611-36	Sequence 36, Appli
33	40.5	39.3	798	4	US-09-690-359-36	Sequence 36, Appli
34	40.5	39.3	859	3	US-08-444-818-30	Sequence 30, Appli
35	40.5	39.3	1040	4	US-10-104-966-9	Sequence 9, Appli
36	40.5	39.3	1786	3	US-08-444-818-54	Sequence 54, Appli
37	40.5	39.3	2261	3	US-08-444-818-66	Sequence 66, Appli
38	40.5	39.3	2436	3	US-08-444-818-75	Sequence 75, Appli
39	40.5	39.3	2772	3	US-08-444-818-89	Sequence 89, Appli
40	40.5	39.3	2894	2	US-08-466-375A-23	Sequence 23, Appli
41	40.5	39.3	2894	2	US-08-391-671A-23	Sequence 23, Appli
42	40.5	39.3	2894	3	US-08-467-902A-23	Sequence 23, Appli
43	40.5	39.3	2894	3	US-09-275-265-23	Sequence 23, Appli
44	40.5	39.3	2894	4	US-09-941-611-23	Sequence 23, Appli
45	40.5	39.3	2955	2	US-08-443-260-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1  
US-09-061-768A-4  
; Sequence 4, Application US/09061768A  
; Patent No. 6204037  
; GENERAL INFORMATION:  
; APPLICANT: BRASH, ALAN R.  
; APPLICANT: BOEGLIN, WILLIAM E.  
; APPLICANT: JISAKA, MITSUO  
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS  
; NUMBER OF SEQUENCES: 36  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARLES A. TAYLOR, JR.  
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD  
; CITY: DURHAM  
; STATE: NORTH CAROLINA  
; COUNTRY: USA  
; ZIP: 27707  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage  
; COMPUTER: IBM PC/XT/AT compatible  
; OPERATING SYSTEM: Windows 3.1  
; SOFTWARE: WORD PERFECT 6.1 and ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/061,768A  
; FILING DATE: APRIL 16, 1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA: NONE  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ARLES A. TAYLOR, JR.  
; REGISTRATION NUMBER: 39,395  
; REFERENCE/DOCKET NUMBER: 1242/5  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (919) 493-8000  
; TELEFAX: (919) 419-0383  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 677 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: unknown  
US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;  
Best Local Similarity 40.0%; Pred. No. 44;  
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQW 11

; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094 190

COMPUTER SYSTEM: PC-DOS/MS-DOS  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE: 06-FEB-1995
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-640-305-4

Query Match          43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 53;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

Qy 1 DWCEWL-----KMWACN 14
|:|:|:|:|:|:|:|:|:|:|
Db 405 DYICWNLGNLAWTEKLEWRYN 425

RESULT 6
US-08-360-673-4
; Sequence 4, Application US/08360673
; Patent No. 5679544
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
; TITLE OF INVENTION: PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
```

```
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-360-673-4

Query Match          43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 53;
Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;

Qy 1 DWCEWL-----KMWACN 14
|:|:|:|:|:|:|:|
Db 405 DYICWNLGNLAWTEKLEWRYN 425

RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTS and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match          42.7%; Score 44; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 10;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKMW 11
|:|:|:|:|:|
Db 45 DWLADWKKVGM 55

RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dammann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
```

SOFTWARE: FastSeq for Windows Version 2.0

;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/943,714  
;; FILING DATE: 03-OCT-1997  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Lambiris, Elias J  
;; REGISTRATION NUMBER: 33,728  
;; REFERENCE/DOCKET NUMBER: 4990,200-US  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 212-867-0123  
;; TELEFAX: 212-878-9655  
;; TELEX:  
;; INFORMATION FOR SEQ ID NO: 9:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 423 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;  
Best Local Similarity 71.4%; Pred. NO. 53;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7  
||:|:|  
Db 340 DWICNWL 346

## RESULT 9

US-09-489-039A-12688  
; Sequence 12688, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:

;; APPLICANT: Gary Breton et. al  
;; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
;; FILE REFERENCE: 2709,2004001  
;; CURRENT APPLICATION NUMBER: US/09/489,039A

;; CURRENT FILING DATE: 2000-01-27  
;; PRIOR APPLICATION NUMBER: US 60/117,747  
;; PRIOR FILING DATE: 1999-01-29  
;; NUMBER OF SEQ ID NOS: 14342  
;; SEQ ID NO 12688  
;; LENGTH: 428  
;; TYPE: PRT

;; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;  
Best Local Similarity 53.8%; Pred. NO. 76;  
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWLK--MQW 11  
:|:|:|  
Db 110 NWIFWAKEANQW 122

## RESULT 10

US-08-288-508C-2  
; Sequence 2, Application US/08288508C  
; Patent No. 5994094  
; GENERAL INFORMATION:

;; APPLICANT: H tten, Gertrud  
;; APPLICANT: Neidhardt, Helge  
;; APPLICANT: Paulista, Michael  
;; TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF  
;; TITLE OF INVENTION: THE TGF- FAMILY  
;; NUMBER OF SEQUENCES: 40  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP  
;; STREET: 655 Fifteenth Street N.W. Suite 330

;; CITY: Washington  
;; STATE: D.C.  
;; COUNTRY: U.S.A.  
;; ZIP: 20005-5701  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/288,508C  
;; FILING DATE: 10-AUG-1994  
;; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: DE P 43 26 829.3  
;; FILING DATE: 10-AUG-1993  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: DE P 44 18 222.8  
;; FILING DATE: 25-MAY-1994  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: DE P 44 20 157.5  
;; FILING DATE: 09-JUN-1994

;; ATTORNEY/AGENT INFORMATION:  
;; NAME: JAHNS, Kristina M.  
;; REGISTRATION NUMBER: P-41,092  
;; REFERENCE/DOCKET NUMBER: P564-4019  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (202)638-5000  
;; TELEFAX: (202)638-4810

;; INFORMATION FOR SEQ ID NO: 2:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 501 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
US-08-288-508C-2

Query Match 41.7%; Score 43; DB 2; Length 501;  
Best Local Similarity 40.0%; Pred. NO. 90;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWACNVL 16  
|:|:|:|  
Db 12 WYLAWLDEFTCTVL 26

## RESULT 11

US-08-981-490B-1  
; Sequence 1, Application US/08981490B  
; Patent No. 6531450  
; GENERAL INFORMATION:

;; APPLICANT: Hotten, Gertrud  
;; APPLICANT: Pohl, Jens  
;; APPLICANT: Bechtold, Rolf  
;; APPLICANT: Paulista, Michael  
;; APPLICANT: Unsicker, Klaus  
;; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE  
;; TITLE OF INVENTION: NERVOUS SYSTEM  
;; FILE REFERENCE: 100564-07032  
;; CURRENT APPLICATION NUMBER: US/08/981,490B  
;; CURRENT FILING DATE: 1998-05-18

;; PRIOR APPLICATION NUMBER: PCT/EP96/03065  
;; PRIOR FILING DATE: 1996-07-12  
;; PRIOR APPLICATION NUMBER: DE/195 25 416.3  
;; PRIOR FILING DATE: 1995-07-12  
;; NUMBER OF SEQ ID NOS: 7  
;; SOFTWARE: PatentIn version 3.1  
;; SEQ ID NO 1  
;; LENGTH: 501  
;; TYPE: PRT

;; ORGANISM: Homo sapiens  
US-08-981-490B-1

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Query Match          41.7%; Score 43; DB 4; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWACNVL 16
Db 12 WYLAWLDFEFCIVL 26

RESULT 12
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match          40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQMLC 14

RESULT 13
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
US-09-723-251A-27

Query Match          40.8%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEW 6
Db 57 DWCEW 62

RESULT 15
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match          39.8%; Score 41; DB 4; Length 170;
Best Local Similarity 50.0%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
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; Patent No. 6608028
US-09-723-251A-27

Query Match          40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQMLC 14

RESULT 14
US-09-497-491-47
; Sequence 47, Application US/09497491
; Patent No. 6630573
; GENERAL INFORMATION:
; APPLICANT: Walker, Craig
; APPLICANT: Shetty, Reshma
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Hooper, David
; APPLICANT: Jacobsen, Richard
; APPLICANT: Steele, Doug
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Tau-Conotoxin Peptides
; FILE REFERENCE: Tau-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/497,491
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: US 60/118,642
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match          39.8%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEW 6
Db 57 DWCEW 62

RESULT 15
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match          39.8%; Score 41; DB 4; Length 170;
Best Local Similarity 50.0%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
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Qv 2 WVCEWLKMOV 11  
|:|  
Db 36 WLCWLASCV 45

Search completed: September 8, 2004, 12:58:37  
Job time : 12.2 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds

(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-124

Perfect score: 102

Sequence: 1 DWVCNLFKNQWFCDDV 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	100.0	16	11	US-09-825-517A-124
2	99	97.1	16	11	US-09-825-517A-42
3	99	97.1	16	11	US-09-825-517A-46
4	99	97.1	16	11	US-09-825-517A-52
5	99	97.1	16	11	US-09-825-517A-129
6	98	96.1	16	11	US-09-825-517A-58
7	98	96.1	16	11	US-09-825-517A-62
8	98	96.1	16	11	US-09-825-517A-74
9	98	96.1	16	11	US-09-825-517A-120
10	96	94.1	16	11	US-09-825-517A-38
11	96	94.1	16	11	US-09-825-517A-45
12	96	94.1	16	11	US-09-825-517A-47
13	96	94.1	16	11	US-09-825-517A-73
14	96	94.1	16	11	US-09-825-517A-121
15	95	93.1	16	11	US-09-825-517A-81

16	95	93.1	16	11	US-09-825-517A-83	Sequence 83, Appl
17	95	93.1	16	11	US-09-825-517A-132	Sequence 132, App
18	95	93.1	16	11	US-09-825-517A-145	Sequence 145, Appl
19	94	92.2	16	11	US-09-825-517A-48	Sequence 48, Appl
20	94	92.2	16	11	US-09-825-517A-50	Sequence 50, Appl
21	94	92.2	16	11	US-09-825-517A-53	Sequence 53, Appl
22	94	92.2	16	11	US-09-825-517A-69	Sequence 69, Appl
23	94	92.2	16	11	US-09-825-517A-77	Sequence 77, Appl
24	94	92.2	16	11	US-09-825-517A-98	Sequence 98, Appl
25	94	92.2	16	11	US-09-825-517A-136	Sequence 136, App
26	94	92.2	16	11	US-09-825-517A-138	Sequence 138, App
27	93	91.2	16	11	US-09-825-517A-37	Sequence 37, Appl
28	93	91.2	16	11	US-09-825-517A-39	Sequence 39, Appl
29	93	91.2	16	11	US-09-825-517A-57	Sequence 57, Appl
30	93	91.2	16	11	US-09-825-517A-66	Sequence 66, Appl
31	93	91.2	16	11	US-09-825-517A-84	Sequence 84, Appl
32	93	91.2	16	11	US-09-825-517A-119	Sequence 119, App
33	93	91.2	16	11	US-09-825-517A-131	Sequence 131, App
34	93	91.2	16	11	US-09-825-517A-134	Sequence 134, App
35	92	90.2	16	11	US-09-825-517A-43	Sequence 43, Appl
36	91	89.2	16	11	US-09-825-517A-41	Sequence 41, Appl
37	91	89.2	16	11	US-09-825-517A-79	Sequence 79, Appl
38	89	87.3	16	11	US-09-825-517A-61	Sequence 61, Appl
39	89	87.3	16	11	US-09-825-517A-64	Sequence 64, Appl
40	89	87.3	16	11	US-09-825-517A-99	Sequence 99, Appl
41	88	86.3	16	11	US-09-825-517A-40	Sequence 40, Appl
42	88	86.3	16	11	US-09-825-517A-71	Sequence 71, Appl
43	88	86.3	16	11	US-09-825-517A-108	Sequence 108, App
44	87	85.3	16	11	US-09-825-517A-89	Sequence 89, Appl
45	87	85.3	16	11	US-09-825-517A-92	Sequence 92, Appl

#### ALIGNMENTS

```
RESULT 1
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124
```

Query Match 100.0%; Score 102; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1.3e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 2  
US-09-825-517A-42  
; Sequence 42, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 42  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-42

Query Match 97.1%; Score 99; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 3.3e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16  
||| ||||| ||||| |||||  
DB 1 DWVCNLFKNQWFCDDV 16

RESULT 3  
US-09-825-517A-46  
; Sequence 46, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 46  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-46

Query Match 97.1%; Score 99; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 3.3e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16  
||| ||||| ||||| |||||  
DB 1 DWVCNLFKNQWFCDDV 16

RESULT 4  
US-09-825-517A-52  
; Sequence 52, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 52  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-52

Query Match 97.1%; Score 99; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 3.3e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16  
||| ||||| ||||| |||||  
DB 1 DWVCNLFKNQWFCDDV 16

RESULT 5  
US-09-825-517A-129  
; Sequence 129, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 129  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-129

Query Match 97.1%; Score 99; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 3.3e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16  
||| ||||| ||||| |||||  
DB 1 DWVCNLFKNQWFCDDV 16

RESULT 6  
US-09-825-517A-58  
; Sequence 58, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 58  
; LENGTH: 16  
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDV 15
   |||||
Db 1 DWVCNLFKNQWFCDV 15

RESULT 7
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDV 15
   |||||
Db 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDV 15
   |||||
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDV 15
   |||||
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match          94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.8e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDV 16
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Db 1 DWVCNLFKNQWFCDL 16
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RESULT 11  
 US-09-825-517A-45  
 ; Sequence 45, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 45  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 US-09-825-517A-45

Query Match 94.1%; Score 96; DB 11; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 8.8e-07;  
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15  
 ||:|||||||  
 Db 1 DWICNLFKNQWFCDDI 15

RESULT 12  
 US-09-825-517A-47  
 ; Sequence 47, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 47  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 US-09-825-517A-47

Query Match 94.1%; Score 96; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 8.8e-07;  
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16  
 ||:|||||||  
 Db 1 DWICNLFKNQWFCDDI 16

RESULT 13  
 US-09-825-517A-73  
 ; Sequence 73, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 73  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 US-09-825-517A-73

Query Match 94.1%; Score 96; DB 11; Length 16;  
 Best Local Similarity 93.8%; Pred. No. 8.8e-07;  
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 16  
 ||:|||||||  
 Db 1 DWVCNLFKNQWFCDDV 16

RESULT 14  
 US-09-825-517A-121  
 ; Sequence 121, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 121  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-121

Query Match 94.1%; Score 96; DB 11; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 8.8e-07;  
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDV 15  
 ||:|||||||  
 Db 1 DWICNLFKNQWFCDDI 15

RESULT 15  
 US-09-825-517A-81  
 ; Sequence 81, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 81
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-81

Query Match      93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy      1 DWVCNLFKNQWFCDVV 16
      |||||
Db      1 DWVCNLFKNQWFCDAL 16

Search completed: September 8, 2004, 14:25:08
Job time : 44.3 secs
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; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-131-028A-13

Query Match 47.1%; Score 48; DB 3; Length 215;  
Best Local Similarity 50.0%; Pred. No. 12;  
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFCDV 15  
Db 12 WFCGLRGNEFFCEV 25

RESULT 3  
US-09-137-223A-2  
; Sequence 2, Application US/09137223A  
; Patent No. 6420525  
; GENERAL INFORMATION:  
; APPLICANT: Yee, David P  
; APPLICANT: Deisher, Theresa A  
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR  
; FILE REFERENCE: ZGCL-1  
; CURRENT APPLICATION NUMBER: US/09/137,223A  
; PRIOR FILING DATE: 1998-08-19  
; PRIOR APPLICATION NUMBER: 06/056,130  
; PRIOR FILING DATE: 1997-08-19  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 478  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-137-223A-2

Query Match 44.1%; Score 45; DB 4; Length 478;  
Best Local Similarity 41.7%; Pred. No. 70;  
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWF 12  
Db 322 EWLSSVYKQWF 333

RESULT 4  
US-09-252-991A-17516  
; Sequence 17516, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; PRIOR FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17516  
; LENGTH: 612  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17516

Query Match 43.1%; Score 44; DB 4; Length 612;  
Best Local Similarity 75.0%; Pred. No. 1.2e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 WVCNLFKN 9  
Db 54 WICNLFAN 61

RESULT 5  
US-09-337-227C-27  
; Sequence 27, Application US/09337227C  
; Patent No. 6420518  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Yvonne May-Yee  
; APPLICANT: Clark, Ross G.  
; APPLICANT: Cochran, Andrea G.  
; APPLICANT: Lowman, Henry B.  
; APPLICANT: Robinson, Iain C.A.F.  
; APPLICANT: Skelton, Nicholas J.  
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES  
; FILE REFERENCE: P1071P2.rev  
; CURRENT APPLICATION NUMBER: US/09/337,227C  
; PRIOR FILING DATE: 1999-06-22  
; PRIOR APPLICATION NUMBER: US 09/052,888  
; PRIOR FILING DATE: 1998-03-31  
; PRIOR APPLICATION NUMBER: US 08/825,852  
; PRIOR FILING DATE: 1997-04-04  
; NUMBER OF SEQ ID NOS: 51  
; SEQ ID NO 27  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Sequence is synthesized  
; Patent No. 6420518  
US-09-337-227C-27

Query Match 42.2%; Score 43; DB 4; Length 21;  
Best Local Similarity 46.2%; Pred. No. 5.6;  
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWPCD 14  
Db 3 WVCRAGPLQWLCE 15

RESULT 6  
US-09-723-251A-27  
; Sequence 27, Application US/09723251A  
; Patent No. 6608028  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Yvonne May-Yee  
; APPLICANT: Clark, Ross G.  
; APPLICANT: Cochran, Andrea G.  
; APPLICANT: Lowman, Henry B.  
; APPLICANT: Robinson, Iain C.A.F.  
; APPLICANT: Skelton, Nicholas J.  
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES  
; FILE REFERENCE: P1071P2C1.2Rev  
; CURRENT APPLICATION NUMBER: US/09/723,251A  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: US 09/337,227  
; PRIOR FILING DATE: 1999-06-22  
; PRIOR APPLICATION NUMBER: US 08/825,852  
; PRIOR FILING DATE: 1997-04-04  
; NUMBER OF SEQ ID NOS: 51  
; SEQ ID NO 27  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Sequence is synthesized  
; Patent No. 6608028  
US-09-723-251A-27

Query Match 42.2%; Score 43; DB 4; Length 21;



RESULT 8  
US-09-299-689A-8  
; Sequence 8, Application US/09299689A  
; Patent No. 6379913  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.

```

1 TITLE OF INVENTION: COMPOSITIONS AND METHODS
2
3 TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
4
5 FILE REFERENCE: 21021.478C14
6
7 CURRENT APPLICATION NUMBER: US/09/702,705
8
9 CURRENT FILING DATE: 2000-10-30
10
11 NUMBER OF SEQ ID NOS: 1833
12
13 SOFTWARE: FastSeq for Windows Version 3.0
14
15 SEQ ID NO 336
16

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; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 10
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736.457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 11
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614.124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 12
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671.325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFVD 413

RESULT 13
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589.184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336
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us-09-825-517a-124.ra1

Wed Sep 8 16:40:44 2004

US-09-589-184-336

Query Match 42.2%; Score 43; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.3e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14  
Db 400 DMACNFMGDEWFD 413

RESULT 14

US-08-816-241-1  
Sequence 1, Application US/08816241  
Patent No. 5804185  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: NOVEL RNA EDITING ENZYME  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/816,241  
FILING DATE: Filed Herewith  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0239 US  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 190 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: PROSTUT09  
CLONE: 1646823

US-08-816-241-1  
Query Match 41.7%; Score 42.5; DB 1; Length 190;  
Best Local Similarity 28.6%; Pred. No. 62;  
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

Qy 2 WVCNLFKNQ-----WFC 14  
Db 50 WKTGVFRNQVDSETHCHAEFCFLSWFCD 77

RESULT 15

US-09-128-395-1  
Sequence 1, Application US/09128395  
Patent No. 6087108  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Goli, Surya K.

TITLE OF INVENTION: NOVEL RNA EDITING ENZYME  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/128,395  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/816,241  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0239 US  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 190 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: PROSTUT09  
CLONE: 1646823  
US-09-128-395-1

Query Match 41.7%; Score 42.5; DB 3; Length 190;  
Best Local Similarity 28.6%; Pred. No. 62;  
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

Qy 2 WVCNLFKNQ-----WFC 14  
Db 50 WKTGVFRNQVDSETHCHAEFCFLSWFCD 77

Search completed: September 8, 2004, 12:58:37  
Job time : 12.2 secs



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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-123  
Perfect score: 102  
Sequence: 1 DWVCEFIKQWYCDLA 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubaa/US07\_NEW\_PUB.pep.\*
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- 7: /cgn2\_6/ptodata/1/pubaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubaa/US10\_NEW\_PUB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	102	100.0	16	11	US-09-825-517A-123
2	83	81.4	16	11	US-09-825-517A-150
3	81	79.4	16	11	US-09-825-517A-137
4	80	78.4	16	11	US-09-825-517A-147
5	78	76.5	16	11	US-09-825-517A-86
6	78	76.5	16	11	US-09-825-517A-109
7	77	75.5	16	11	US-09-825-517A-76
8	77	75.5	16	11	US-09-825-517A-80
9	76	74.5	16	11	US-09-825-517A-65
10	76	74.5	16	11	US-09-825-517A-75
11	75	73.5	16	11	US-09-825-517A-48
12	75	73.5	16	11	US-09-825-517A-78
13	75	73.5	16	11	US-09-825-517A-144
14	75	73.5	16	11	US-09-825-517A-145
15	74	72.5	16	11	US-09-825-517A-38

16	74	72.5	16	11	US-09-825-517A-59	Sequence 59, Appl
17	74	72.5	16	11	US-09-825-517A-93	Sequence 93, Appl
18	74	72.5	16	11	US-09-825-517A-114	Sequence 114, App
19	73	71.6	16	11	US-09-825-517A-116	Sequence 116, App
20	73	71.6	16	11	US-09-825-517A-126	Sequence 126, App
21	73	71.6	16	11	US-09-825-517A-127	Sequence 127, App
22	72	70.6	16	11	US-09-825-517A-82	Sequence 82, Appl
23	72	70.6	16	11	US-09-825-517A-104	Sequence 104, App
24	72	70.6	16	11	US-09-825-517A-146	Sequence 146, App
25	71	69.6	16	11	US-09-825-517A-37	Sequence 37, Appl
26	71	69.6	16	11	US-09-825-517A-42	Sequence 42, Appl
27	71	69.6	16	11	US-09-825-517A-45	Sequence 45, Appl
28	71	69.6	16	11	US-09-825-517A-52	Sequence 52, Appl
29	71	69.6	16	11	US-09-825-517A-58	Sequence 58, Appl
30	71	69.6	16	11	US-09-825-517A-62	Sequence 62, Appl
31	71	69.6	16	11	US-09-825-517A-67	Sequence 67, Appl
32	71	69.6	16	11	US-09-825-517A-74	Sequence 74, Appl
33	71	69.6	16	11	US-09-825-517A-120	Sequence 120, App
34	71	69.6	16	11	US-09-825-517A-121	Sequence 121, App
35	71	69.6	16	11	US-09-825-517A-124	Sequence 124, App
36	71	69.6	16	11	US-09-825-517A-129	Sequence 129, App
37	71	69.6	16	11	US-09-825-517A-139	Sequence 139, App
38	71	69.6	16	11	US-09-825-517A-148	Sequence 148, App
39	70	68.6	16	11	US-09-825-517A-49	Sequence 49, Appl
40	70	68.6	16	11	US-09-825-517A-53	Sequence 53, Appl
41	70	68.6	16	11	US-09-825-517A-73	Sequence 73, Appl
42	70	68.6	16	11	US-09-825-517A-77	Sequence 77, Appl
43	70	68.6	16	11	US-09-825-517A-81	Sequence 81, Appl
44	70	68.6	16	11	US-09-825-517A-83	Sequence 83, Appl
45	70	68.6	16	11	US-09-825-517A-100	Sequence 100, App

ALIGNMENTS

RESULT 1  
US-09-825-517A-123  
; Sequence 123, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 123  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-123

Query Match 100.0%; Score 102; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1.3e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWYCDLA 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCEFIKQWYCDLA 16

RESULT 2  
US-09-825-517A-150  
; Sequence 150, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

```

```

Query Match      81.4%; Score 83; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 5.9e-05;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKDQWYCDL 15
    ||||| ||||| :|:
Db 1 DWVCEFFKQWFCNI 15

```

```

RESULT 3
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

```

```

Query Match      79.4%; Score 81; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00011;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKDQWYCDL 15
    ||||| ||||| :|:
Db 1 DWVCEFFKQWYCN 15

```

```

RESULT 4
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

```

```

Query Match      78.4%; Score 80; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00016;
Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKDQWYCDL 15
    ||||| ||||| :|:
Db 1 DWVCEFFKQWFCNV 15

```

```

RESULT 5
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

```

```

Query Match      76.5%; Score 78; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.0003;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1 DWVCEFIKDQWYCDL 15
    ||||| ||||| :|:
Db 1 DWVCEFFKQWFCNL 15

```

```

RESULT 6
US-09-825-517A-109
; Sequence 109, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-103

Query Match          76.5%; Score 78; DB 11; Length 16;
Best Local Similarity 71.4%; Pred. No. 0.0003;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 14
   |||||:|:|:|
Db 1 DWVCEYFKNQWFC D 14

RESULT 7
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match          75.5%; Score 77; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00041;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCEFFKQWSCNV 15

RESULT 8
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match          75.5%; Score 77; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 0.00041;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCEFFKQWSCNV 15

RESULT 9
US-09-825-517A-65
; Sequence 65, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-65

Query Match          74.5%; Score 76; DB 11; Length 16;
Best Local Similarity 66.7%; Pred. No. 0.00056;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCELVKAQWYCN I 15

RESULT 10
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match          74.5%; Score 76; DB 11; Length 16;
Best Local Similarity 66.7%; Pred. No. 0.00056;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKQWYCDL 15
   |||||:|:|:|
Db 1 DWVCEFFKQWFCNV 15
```

```

RESULT 11
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 56.2%; Pred. No. 0.00078;
Matches 9; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCDLA 16
Db 1 DWICNLFKNQWFCDMA 16

RESULT 12
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 71.4%; Pred. No. 0.00078;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCD 14
Db 1 DWVCEFMKQWFCN 14

RESULT 13
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 71.4%; Pred. No. 0.00078;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCD 14
Db 1 DWVCEWLKPQWYCN 14

RESULT 14
US-09-825-517A-145
; Sequence 145, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 145
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-145

Query Match      73.5%; Score 75; DB 11; Length 16;
Best Local Similarity 62.5%; Pred. No. 0.00078;
Matches 10; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCDLA 16
Db 1 DWVCELFKNQWFCDL 16

RESULT 15
US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```



; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 38  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-38

Query Match 72.5%; Score 74; DB 11; Length 16;  
Best Local Similarity 66.7%; Pred. No. 0.0011;  
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFIKDQWYCDL 15  
||| |:  
Db 1 DWVCNLFKNQWFCDL 15

Search completed: September 8, 2004, 14:25:08  
Job time : 45.3 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-123  
Perfect score: 102  
Sequence: 1 DWVCEFIKQWYCDLA 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: +  
1: /cgn2\_6/prodata/2/iaa/5A COMB.pep.\*  
2: /cgn2\_6/prodata/2/iaa/5B COMB.pep.\*  
3: /cgn2\_6/prodata/2/iaa/6A COMB.pep.\*  
4: /cgn2\_6/prodata/2/iaa/6B COMB.pep.\*  
5: /cgn2\_6/prodata/2/iaa/PCITUS COMB.pep.\*  
6: /cgn2\_6/prodata/2/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	45	45.1	480	2	US-08-828-488-8
2	46	45.1	480	4	US-09-239-689A-8
3	46	45.1	480	4	US-09-702-705-336
4	46	45.1	480	4	US-09-736-457-336
5	46	45.1	480	4	US-09-614-124B-336
6	46	45.1	480	4	US-09-671-325-336
7	46	45.1	480	4	US-09-589-184-336
8	45	44.1	272	4	US-09-328-352-6959
9	44	43.1	380	4	US-09-489-039A-8153
10	42	41.2	1621	1	US-08-242-677-2
11	41	40.2	20	2	US-07-894-063A-6
12	41	40.2	30	1	US-08-262-037-16
13	41	40.2	38	1	US-08-262-037-95
14	41	40.2	47	1	US-08-262-037-96
15	41	40.2	106	3	US-08-444-818-24
16	41	40.2	120	3	US-08-347-492B-2
17	41	40.2	120	2	US-08-798-143-2
18	41	40.2	120	5	PCT-US95-15484-2
19	41	40.2	136	5	PCT-US95-07171-2
20	41	40.2	176	3	US-08-444-818-28
21	41	40.2	191	5	PCT-US95-07171-3
22	41	40.2	360	4	US-08-850-328-4
23	41	40.2	489	4	US-09-547-435-4
24	41	40.2	516	3	US-08-867-611-6
25	41	40.2	516	3	US-09-690-359-6
26	41	40.2	516	5	PCT-US92-06965A-11
27	41	40.2	604	4	US-09-820-809-13

28	41	40.2	615	4	US-09-547-435-10
29	41	40.2	645	4	US-09-547-435-26
30	41	40.2	701	3	US-09-087-727-2
31	41	40.2	701	4	US-09-853-053-2
32	41	40.2	711	4	US-09-547-435-2
33	41	40.2	771	4	US-09-547-435-28
34	41	40.2	798	3	US-08-867-611-36
35	41	40.2	798	4	US-09-690-359-36
36	41	40.2	859	3	US-08-444-818-30
37	41	40.2	867	4	US-09-547-435-24
38	41	40.2	906	5	PCT-US91-09422-17
39	41	40.2	912	3	US-08-617-785-2
40	41	40.2	912	4	US-09-641-318-2
41	41	40.2	912	4	US-09-817-464-2
42	41	40.2	912	5	PCT-US91-09422-19
43	41	40.2	1040	4	US-10-104-966-9
44	41	40.2	1056	2	US-08-687-289A-7
45	41	40.2	1056	4	US-09-435-897-7

ALIGNMENTS

RESULT 1  
US-08-828-488-8  
; Sequence 8, Application US/08828488  
; Patent No. 5925521

; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Gai, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; TITLE OF INVENTION: CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/828,488  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0241 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
; US-08-828-488-8

Query Match 45.1%; Score 46; DB 2; Length 480;

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Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 2
US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 3
US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 4
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 45.1%; Score 46; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 30;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWVCEFIKDQWYCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 5
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
```

APPLICANT: Lodes, Michael A.  
APPLICANT: Fanger, Gary  
APPLICANT: Vedvick, Tom  
APPLICANT: Carter, Darrick  
APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.478C9  
CURRENT APPLICATION NUMBER: US/09/614,124B  
CURRENT FILING DATE: 2001-07-11  
NUMBER OF SEQ ID NOS: 1668  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 336  
LENGTH: 480  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-614-124B-336

Query Match 45.1%; Score 46; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 30;  
Matches 6; Conservative 3; Mismatches 5; Indels 5; Gaps 0;

QY 1 DWVCEFIKQWYCD 14  
| | | | |  
Db 400 DMACNFMGDEWFDV 413

RESULT 6  
US-09-671-325-336  
Sequence 336, Application US/09671325  
Patent No. 6667154  
GENERAL INFORMATION:  
APPLICANT: Wang, Tongtong  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Lodes, Michael A.  
APPLICANT: Fanger, Gary  
APPLICANT: Vedvick, Tom  
APPLICANT: Carter, Darrick  
APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
APPLICANT: Fan, Liqun  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.478C12  
CURRENT APPLICATION NUMBER: US/09/671,325  
CURRENT FILING DATE: 2000-09-26  
NUMBER OF SEQ ID NOS: 1825  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 336  
LENGTH: 480  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-671-325-336

Query Match 45.1%; Score 46; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 30;  
Matches 6; Conservative 3; Mismatches 5; Indels 5; Gaps 0;

QY 1 DWVCEFIKQWYCD 14  
| | | | |  
Db 400 DMACNFMGDEWFDV 413

RESULT 7  
US-09-589-184-336  
Sequence 336, Application US/09589184  
Patent No. 6686447  
GENERAL INFORMATION:  
APPLICANT: Wang, Tongtong  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Lodes, Michael A.  
APPLICANT: Fanger, Gary

APPLICANT: Vedvick, Tom  
APPLICANT: Carter, Darrick  
APPLICANT: Retter, Marc  
APPLICANT: Mannion, Jane  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER  
FILE REFERENCE: 210121.478C8  
CURRENT APPLICATION NUMBER: US/09/589,184  
CURRENT FILING DATE: 2000-06-05  
NUMBER OF SEQ ID NOS: 827  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 336  
LENGTH: 480  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-589-184-336

Query Match 45.1%; Score 46; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 30;  
Matches 6; Conservative 3; Mismatches 5; Indels 5; Gaps 0;

QY 1 DWVCEFIKQWYCD 14  
| | | | |  
Db 400 DMACNFMGDEWFDV 413

RESULT 8  
US-09-328-352-6959  
Sequence 6959, Application US/09328352  
Patent No. 6562958  
GENERAL INFORMATION:  
APPLICANT: Gary L. Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: GTC99-03PA  
CURRENT APPLICATION NUMBER: US/09/328,352  
CURRENT FILING DATE: 1999-06-04  
NUMBER OF SEQ ID NOS: 8252  
SEQ ID NO 6959  
LENGTH: 272  
TYPE: PRT  
ORGANISM: Acinetobacter baumannii  
US-09-328-352-6959

Query Match 44.1%; Score 45; DB 4; Length 272;  
Best Local Similarity 50.0%; Pred. No. 24;  
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCEFIKQWYC 13  
| | | | |  
Db 212 WAEVFLDNQWYC 223

RESULT 9  
US-09-489-039A-8153  
Sequence 8153, Application US/09489039A  
Patent No. 6610836  
GENERAL INFORMATION:  
APPLICANT: Gary Breton et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
FILE REFERENCE: 2709.2004001  
CURRENT APPLICATION NUMBER: US/09/489,039A  
CURRENT FILING DATE: 2000-01-27  
PRIOR APPLICATION NUMBER: US 60/117,747  
PRIOR FILING DATE: 1999-01-29  
NUMBER OF SEQ ID NOS: 14342  
SEQ ID NO 8153  
LENGTH: 380  
TYPE: PRT  
ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-8153

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Query Match      43.1%; Score 44; DB 4; Length 380;
Best Local Similarity 53.8%; Pred. No. 47;
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY      3 VCEFIKQWYCDL 15
DB      8 LCYFINSWYFDL 20

RESULT 10
US-08-242-677-2
; Sequence 2, Application US/08242677
; Patent No. 5677143
; GENERAL INFORMATION:
; APPLICANT: Gaynor, Richard B
; APPLICANT: Wu, Poon W.
; TITLE OF INVENTION: Cellular Nucleic Acid Binding Protein
; TITLE OF INVENTION: and Uses Thereof in regulating Gene Expression and in the
; TITLE OF INVENTION: treatment of AIDS
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/242,677
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mayfield, Denise L.
; REGISTRATION NUMBER: 33,732
; REFERENCE/DOCKET NUMBER: UTSD:401
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-789-2679
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1621 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-242-677-2

Query Match      41.2%; Score 42; DB 1; Length 1621;
Best Local Similarity 54.5%; Pred. No. 4,2e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      3 VCEFIKQWYC 13
DB      885 VAQYIHQWYC 895

RESULT 11
US-07-894-063A-6
; Sequence 6, Application US/07894063A
; Patent No. 5980899
; GENERAL INFORMATION:
; APPLICANT: BERZORSKY, Jay A.
; APPLICANT: SHIRAI, Mutsumori
; APPLICANT: AKATSUKA, Toshitaka
; APPLICANT: FEINSTONE, Stephen M.
; TITLE OF INVENTION: PEPTIDE FOR STIMULATION OF CYTOTOXIC T
; TITLE OF INVENTION: LYMPHOCYTES SPECIFIC FOR HEPATITIS C VIRUS IN A MAMMAL
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/894,063A
; FILING DATE: 19920610
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 40399/162/NIHDI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
US-07-894-063A-6

Query Match      40.2%; Score 41; DB 2; Length 20;
Best Local Similarity 55.6%; Pred. No. 6.4;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEFIKD 9
DB      2 DWICEVLSD 10

RESULT 12
US-08-262-037-16
; Sequence 16, Application US/08262037
; Patent No. 5747239
; GENERAL INFORMATION:
; APPLICANT: Chang Yi Wang and Barbara Hosein
; TITLE OF INVENTION: SYNTHETIC PEPTIDES SPECIFIC FOR
; TITLE OF INVENTION: THE DETECTION OF ANTIBODIES TO HCV, DIAGNOSIS OF HCV
; TITLE OF INVENTION: INFECTION AND PREVENTION THEREOF AS VACCINES
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVE.
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/262,037
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/719,819
; FILING DATE: 24-June-1991
; APPLICATION NUMBER: 07/667,275
; FILING DATE: 11-Mar-1991
; APPLICATION NUMBER: 07/651,735
; FILING DATE: 07-Feb-1991
; APPLICATION NUMBER: 07/558,799

```

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;
; FILING DATE: 26-July-1990
; APPLICATION NUMBER: 07/510,153
; FILING DATE: 16-April-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Maria C. H. Lin
; REGISTRATION NUMBER: 29,323
; REFERENCE/DOCKET NUMBER: 1151-4043 US3
; TELEPHONE: 212-758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: Amino acid
; STRANDEDNESS:
; TOPOLOGY: Unknown
;
US-08-262-037-16

Query Match 40.2%; Score 41; DB 1; Length 30;
Best Local Similarity 55.6%; Pred. No. 9.7;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFIKD 9
Db 9 DWICEVLSD 17

RESULT 13
US-08-262-037-95
; Sequence 95, Application US/08262037
; Patent No. 5747239
; GENERAL INFORMATION:
; APPLICANT: Chang Yi Wang and Barbara Hosein
; TITLE OF INVENTION: SYNTHETIC PEPTIDES SPECIFIC FOR
; TITLE OF INVENTION: THE DETECTION OF ANTIBODIES TO HCV, DIAGNOSIS OF HCV
; TITLE OF INVENTION: INFECTION AND PREVENTION THEREOF AS VACCINES
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVE.
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/262,037
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/719,819
; FILING DATE: 24-June-1991
; APPLICATION NUMBER: 07/667,275
; FILING DATE: 11-Mar-1991
; APPLICATION NUMBER: 07/651,735
; FILING DATE: 07-Feb-1991
; APPLICATION NUMBER: 07/558,799
; FILING DATE: 26-July-1990
; APPLICATION NUMBER: 07/510,153
; FILING DATE: 16-April-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Maria C. H. Lin
; REGISTRATION NUMBER: 29,323
; REFERENCE/DOCKET NUMBER: 1151-4043 US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: Amino acid
; STRANDEDNESS:
; TOPOLOGY: Unknown
;
US-08-262-037-96
; Sequence 96, Application US/08262037
; Patent No. 5747239
; GENERAL INFORMATION:
; APPLICANT: Chang Yi Wang and Barbara Hosein
; TITLE OF INVENTION: SYNTHETIC PEPTIDES SPECIFIC FOR
; TITLE OF INVENTION: THE DETECTION OF ANTIBODIES TO HCV, DIAGNOSIS OF HCV
; TITLE OF INVENTION: INFECTION AND PREVENTION THEREOF AS VACCINES
; NUMBER OF SEQUENCES: 136
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVE.
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/262,037
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/719,819
; FILING DATE: 24-June-1991
; APPLICATION NUMBER: 07/667,275
; FILING DATE: 11-Mar-1991
; APPLICATION NUMBER: 07/651,735
; FILING DATE: 07-Feb-1991
; APPLICATION NUMBER: 07/558,799
; FILING DATE: 26-July-1990
; APPLICATION NUMBER: 07/510,153
; FILING DATE: 16-April-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Maria C. H. Lin
; REGISTRATION NUMBER: 29,323
; REFERENCE/DOCKET NUMBER: 1151-4043 US3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 96:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 47 amino acids
; TYPE: Amino acid
; STRANDEDNESS:
; TOPOLOGY: Unknown
;
US-08-262-037-96

Query Match 40.2%; Score 41; DB 1; Length 47;
Best Local Similarity 55.6%; Pred. No. 15;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
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Qy 1 DMVCEFIKD 9  
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 Db 26 DWICEVLSD 34

## RESULT 15

US-08-444-818-24  
 ; Sequence 24, Application US/08444818  
 ; Patent No. 6150087  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Chien, David Y.  
 ; APPLICANT: Rutter, William J.  
 ; TITLE OF INVENTION: NANV Diagnostics and Vaccines  
 ; NUMBER OF SEQUENCES: 777  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Chiron Corporation  
 ; STREET: 4560 Horton Street  
 ; CITY: Emeryville  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94608-2916  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/444,818  
 ; FILING DATE:  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/403,590  
 ; FILING DATE: 14-MAR-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Harbin, Alisa A.  
 ; REGISTRATION NUMBER: 33,895  
 ; REFERENCE/DOCKET NUMBER: 0110.002  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (508)359-3876  
 ; TELEFAX: (508)359-3885  
 ; INFORMATION FOR SEQ ID NO: 24:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 106 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-444-818-24

Query Match 40.2%; Score 41; DB 3; Length 106;  
 Best Local Similarity 55.6%; Pred. No. 36;  
 Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DMVCEFIKD 9  
 ||:|:|  
 Db 67 DWICEVLSD 75

Search completed: September 8, 2004, 12:58:37  
 Job time : 13.2 secs



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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-122  
Perfect score: 103  
Sequence: 1 DWCEWLKMQWACNIL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PTCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PTCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-112
2	103	100.0	16	11	US-09-825-517A-122
3	103	100.0	16	11	US-09-825-517A-140
4	102	99.0	16	11	US-09-825-517A-125
5	102	99.0	16	11	US-09-825-517A-142
6	100	97.1	16	11	US-09-825-517A-54
7	100	97.1	16	11	US-09-825-517A-138
8	100	97.1	16	11	US-09-825-517A-143
9	92	89.3	16	11	US-09-825-517A-49
10	92	89.3	16	11	US-09-825-517A-141
11	92	89.3	16	11	US-09-825-517A-151
12	89	86.4	16	11	US-09-825-517A-101
13	88	85.4	16	11	US-09-825-517A-126
14	85	82.5	16	11	US-09-825-517A-115
15	85	82.5	16	11	US-09-825-517A-146

16	85	82.5	16	11	US-09-825-517A-148	Sequence 148, App
17	84	81.6	16	11	US-09-825-517A-130	Sequence 130, App
18	84	81.6	16	11	US-09-825-517A-144	Sequence 144, App
19	79	76.7	16	11	US-09-825-517A-68	Sequence 68, App1
20	78	76.7	16	11	US-09-825-517A-107	Sequence 107, App
21	78	75.7	16	11	US-09-825-517A-80	Sequence 80, App1
22	78	75.7	16	11	US-09-825-517A-139	Sequence 139, App
23	78	75.7	16	11	US-09-825-517A-147	Sequence 147, App
24	77	74.8	16	11	US-09-825-517A-75	Sequence 75, App1
25	77	74.8	16	11	US-09-825-517A-76	Sequence 76, App1
26	77	74.8	16	11	US-09-825-517A-104	Sequence 104, App
27	77	74.8	16	11	US-09-825-517A-117	Sequence 117, App
28	77	74.8	16	11	US-09-825-517A-135	Sequence 135, App
29	77	74.8	16	11	US-09-825-517A-137	Sequence 137, App
30	76	73.8	16	11	US-09-825-517A-59	Sequence 59, App1
31	76	73.8	16	11	US-09-825-517A-67	Sequence 67, App1
32	76	73.8	16	11	US-09-825-517A-82	Sequence 82, App1
33	76	73.8	16	11	US-09-825-517A-90	Sequence 90, App1
34	76	73.8	16	11	US-09-825-517A-103	Sequence 103, App
35	76	73.8	16	11	US-09-825-517A-105	Sequence 105, App
36	76	73.8	16	11	US-09-825-517A-106	Sequence 106, App
37	76	73.8	16	11	US-09-825-517A-127	Sequence 127, App
38	75	72.8	16	11	US-09-825-517A-65	Sequence 65, App1
39	75	72.8	16	11	US-09-825-517A-86	Sequence 86, App1
40	75	72.8	16	11	US-09-825-517A-113	Sequence 113, App
41	75	72.8	16	11	US-09-825-517A-150	Sequence 150, App
42	73	70.9	16	11	US-09-825-517A-72	Sequence 72, App1
43	73	70.9	16	11	US-09-825-517A-100	Sequence 100, App
44	73	70.9	16	11	US-09-825-517A-118	Sequence 118, App
45	72	69.9	16	11	US-09-825-517A-88	Sequence 88, App1

ALIGNMENTS

RESULT 1  
US-09-825-517A-112  
; Sequence 112, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Isaac J  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 112  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-112

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.9e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWACNIL 16  
| | | | | | | | | | | | | | | |  
Db 1 DWCEWLKMQWACNIL 16

RESULT 2  
US-09-825-517A-122  
; Sequence 122, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-122
```

```
Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

## RESULT 3

```
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-140
```

```
Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

## RESULT 4

```
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-125
```

```
Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

## RESULT 5

```
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-142
```

```
Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCEWLKMQWACNVL 16
| | | | | | | | | | | | | | | |
DB 1 DWVCEWLKMQWACNVL 16
```

## RESULT 6

```
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
    Query Match      97.1%; Score 100; DB 11; Length 16;
    Best Local Similarity 93.8%; Pred. No. 9.9e-07;
    Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
    |||||
Db 1 DWVCEWLKQWACNML 16
    |||||

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138
    Query Match      97.1%; Score 100; DB 11; Length 16;
    Best Local Similarity 93.8%; Pred. No. 9.9e-07;
    Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
    |||||
Db 1 DWVCEWLKQWACNML 16
    |||||

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143
    Query Match      97.1%; Score 100; DB 11; Length 16;
    Best Local Similarity 93.8%; Pred. No. 9.9e-07;
```

```
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
    |||||
Db 1 DWVCEWLKQWACNML 16
    |||||

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49
    Query Match      89.3%; Score 92; DB 11; Length 16;
    Best Local Similarity 87.5%; Pred. No. 1.1e-05;
    Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
    |||||
Db 1 DWVCEWLKQWACNVL 16
    |||||

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141
    Query Match      89.3%; Score 92; DB 11; Length 16;
    Best Local Similarity 87.5%; Pred. No. 1.1e-05;
    Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
    |||||
Db 1 DWVCEWLKQWACNML 16
    |||||
```

RESULT 11  
 US-09-825-517A-151  
 ; Sequence 151, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SEQ ID NO 151  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-151

Query Match 89.3%; Score 92; DB 11; Length 16;  
 Best Local Similarity 87.5%; Pred. No. 1.1e-05;  
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
 |||||:|||||:  
 Db 1 DWVCEFLKMQWACNVL 16

RESULT 12  
 US-09-825-517A-101  
 ; Sequence 101, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SEQ ID NO 101  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 US-09-825-517A-101

Query Match 86.4%; Score 89; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 2.8e-05;  
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
 |||||:|||||:  
 Db 1 DWVCEWSKMQWSCNAL 16

RESULT 13  
 US-09-825-517A-126  
 ; Sequence 126, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 126  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-126

Query Match 85.4%; Score 88; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 3.9e-05;  
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
 |||||:|||||:  
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 14  
 US-09-825-517A-115  
 ; Sequence 115, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 115  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-115

Query Match 82.5%; Score 85; DB 11; Length 16;  
 Best Local Similarity 75.0%; Pred. No. 9.7e-05;  
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16  
 |||||:|||||:  
 Db 1 DWVCEWFKPWICNLL 16

RESULT 15  
 US-09-825-517A-146  
 ; Sequence 146, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03

; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 146  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-146

Query Match 82.5%; Score 85; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 9.7e-05;  
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNIL 16  
|||||  
Db 1 DWVCEWLKQWFCNSL 16

Search completed: September 8, 2004, 14:25:07  
Job time : 44.3 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-122  
Perfect score: 103  
Sequence: 1 DWCEWLKMQWACNIL 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.7	677	3	US-09-061-768A-4
2	46	44.7	677	4	US-09-764-246-4
3	45	43.7	711	4	US-03-621-976-5666
4	45	43.2	1129	4	US-09-252-991A-28552
5	44.5	43.2	491	1	US-09-640-305-4
6	44.5	43.2	491	1	US-08-360-673-4
7	44	42.7	89	4	US-09-621-976-7155
8	44	42.7	423	3	US-08-943-714-9
9	43	41.7	428	4	US-09-489-039A-12688
10	42	40.8	21	4	US-09-337-227C-27
11	42	40.8	21	4	US-09-723-251A-27
12	42	40.8	393	3	US-08-689-974-4
13	42	40.8	393	3	US-09-058-376-4
14	42	40.8	501	2	US-08-288-508C-2
15	42	40.8	501	4	US-08-981-490B-1
16	41	39.8	63	4	US-09-497-491-47
17	41	39.8	170	4	US-09-252-991A-21369
18	41	39.8	208	4	US-09-252-991A-32166
19	41	39.8	382	4	US-09-252-991A-25095
20	41	39.8	1956	3	US-08-843-417-10
21	41	39.8	1956	4	US-09-527-013-10
22	40.5	39.3	20	2	US-07-894-063A-6
23	40.5	39.3	30	1	US-08-262-037-16
24	40.5	39.3	38	1	US-08-262-037-96
25	40.5	39.3	47	1	US-08-262-037-96
26	40.5	39.3	106	3	US-08-444-818-24
27	40.5	39.3	176	3	US-08-444-818-28

28	40.5	39.3	360	4	US-08-850-328-4	Sequence 4, Appli
29	40.5	39.3	516	3	US-08-867-611-6	Sequence 6, Appli
30	40.5	39.3	516	4	US-09-690-359-6	Sequence 6, Appli
31	40.5	39.3	516	5	PCT-US92-06965A-11	Sequence 11, Appli
32	40.5	39.3	798	3	US-08-867-611-36	Sequence 36, Appli
33	40.5	39.3	798	4	US-09-690-359-36	Sequence 36, Appli
34	40.5	39.3	859	3	US-08-444-818-30	Sequence 30, Appli
35	40.5	39.3	1040	4	US-10-104-966-9	Sequence 9, Appli
36	40.5	39.3	1786	3	US-08-444-818-54	Sequence 54, Appli
37	40.5	39.3	2261	3	US-08-444-818-66	Sequence 66, Appli
38	40.5	39.3	2436	3	US-08-444-818-75	Sequence 75, Appli
39	40.5	39.3	2772	2	US-08-444-818-89	Sequence 89, Appli
40	40.5	39.3	2894	2	US-08-466-975A-23	Sequence 23, Appli
41	40.5	39.3	2894	2	US-08-391-671A-23	Sequence 23, Appli
42	40.5	39.3	2894	3	US-08-467-902A-23	Sequence 23, Appli
43	40.5	39.3	2894	3	US-09-275-265-23	Sequence 23, Appli
44	40.5	39.3	2894	4	US-09-941-611-23	Sequence 23, Appli
45	40.5	39.3	2955	2	US-08-443-260-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1  
US-09-061-768A-4  
; Sequence 4, Application US/09061768A  
; Patent No. 6204037  
; GENERAL INFORMATION:  
; APPLICANT: BRASH, ALAN R.  
; APPLICANT: BOEGLIN, WILLIAM E.  
; APPLICANT: JISAKA, MITSUO  
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS  
; NUMBER OF SEQUENCES: 36  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ARLES A. TAYLOR, JR.  
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD  
; CITY: DURHAM  
; STATE: NORTH CAROLINA  
; COUNTRY: USA  
; ZIP: 27707

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage  
; COMPUTER: IBM PC/XT/AT compatible  
; OPERATING SYSTEM: Windows 3.1  
; SOFTWARE: WORD PERFECT 6.1 and ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/061,768A  
; FILING DATE: APRIL 16, 1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA: NONE  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ARLES A. TAYLOR, JR.  
; REGISTRATION NUMBER: 39,395  
; REFERENCE/DOCKET NUMBER: 1242/5  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (919) 493-8000  
; TELEFAX: (919) 419-0383  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 677 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: unknown  
US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;  
Best Local Similarity 40.0%; Pred. No. 46;  
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKMQW 11





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; APPLICATION NUMBER: US/09/640,305
; FILING DATE: 16-AUG-2000
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE: 06-FEB-1995
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-640-305-4
Query Match 43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 55;
Matches 7; Conservative 3; Mismatches 4; Indels 7; Gaps 1;

QY 1 DWVCEWL-----KMQWACN 14
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Db 405 DYICNWLGNLAWTEKLEWRYN 425

RESULT 6
US-08-360-673-4
; Sequence 4, Application US/08360673
; Patent No. 5679544
; GENERAL INFORMATION:
; APPLICANT: Fleer, Reinhard
; APPLICANT: Fournier, Alain
; APPLICANT: Yeh, Patrice
; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Rd. 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/360,673
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR93/00623
; FILING DATE: 23-JUN-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 92/07785
; FILING DATE: 25-JUN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Smith, Julie K.
; REGISTRATION NUMBER: 38,619
; REFERENCE/DOCKET NUMBER: ST92040-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610)454-3839
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; TELEFAX: (610)454-3808
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-360-673-4
Query Match 43.2%; Score 44.5; DB 1; Length 491;
Best Local Similarity 33.3%; Pred. No. 55;
Matches 7; Conservative 3; Mismatches 4; Indels 7; Gaps 1;

QY 1 DWVCEWL-----KMQWACN 14
|::||| |::|||
Db 405 DYICNWLGNLAWTEKLEWRYN 425

RESULT 7
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155
Query Match 42.7%; Score 44; DB 4; Length 89;
Best Local Similarity 45.5%; Pred. No. 11;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQW 11
|::||| |::|||
Db 45 DWLADWWKVGW 55

RESULT 8
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Gollighly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
Db 340 DWICNLW 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
; US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 79;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK--MQW 11
Db 110 NWIFEWAKEAQQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI07IP2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
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; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
; US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI07IP2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
; US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
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; MOLECULE TYPE: protein  
US-08-288-508C-2

Query Match 40.8%; Score 42; DB 2; Length 501;  
Best Local Similarity 33.3%; Pred. No. 1.3e+02;  
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

Qy	2	WVCEWLKMQWACN	16
Db	12	WYLAWLDEFFICTVL	26

RESULT 15

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US-08-981-490B-1
; Sequence 1, Application US/08981490B
; Patent No. 6531450
; GENERAL INFORMATION:
; APPLICANT: Hotten, Gertrud
; APPLICANT: Pohl, Jens
; APPLICANT: Bechtold, Rolf
; APPLICANT: Paulista, Michael
; APPLICANT: Unsicker, Klaus
; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE
; TITLE OF INVENTION: NERVOUS SYSTEM
; FILE REFERENCE: 100564-07032
; CURRENT APPLICATION NUMBER: US/08/981,490B
; CURRENT FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: PCT/EP96/03065
; PRIOR FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: DE/195 25 416.3
; PRIOR FILING DATE: 1995-07-12
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-981-490B-1

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Query Match          40.8%; Score 42; DB 4; Length 501;
Best Local Similarity 33.3%; Pred. NO. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
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Qy	2	WVCEWLKMQWACN	16
Db	12	WYLAWLDEEICTVL	26

Search completed: September 8, 2004, 12:58:36  
Job time : 13.2 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-121  
Perfect score: 103  
Sequence: 1 DWICNLFKNQWFCDIR 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

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2: /cgn2\_6/ptodata/1/pubaa/PCR\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubaa/US07\_NEW\_PUB.pep.\*  
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17: /cgn2\_6/ptodata/1/pubaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-45 Sequence 45, Appl
2	103	100.0	16	11	US-09-825-517A-121 Sequence 121, Appl
3	97	94.2	16	11	US-09-825-517A-62 Sequence 62, Appl
4	96	93.2	16	11	US-09-825-517A-42 Sequence 42, Appl
5	96	93.2	16	11	US-09-825-517A-52 Sequence 52, Appl
6	96	93.2	16	11	US-09-825-517A-58 Sequence 58, Appl
7	96	93.2	16	11	US-09-825-517A-74 Sequence 74, Appl
8	96	93.2	16	11	US-09-825-517A-120 Sequence 120, Appl
9	96	93.2	16	11	US-09-825-517A-124 Sequence 124, Appl
10	96	93.2	16	11	US-09-825-517A-129 Sequence 129, Appl
11	95	92.2	16	11	US-09-825-517A-38 Sequence 38, Appl
12	95	92.2	16	11	US-09-825-517A-48 Sequence 48, Appl
13	95	92.2	16	11	US-09-825-517A-132 Sequence 132, Appl
14	95	92.2	16	11	US-09-825-517A-145 Sequence 145, Appl
15	94	91.3	16	11	US-09-825-517A-39 Sequence 39, Appl

16 94 91.3 16 11 US-09-825-517A-46 Sequence 46, Appl  
17 94 91.3 16 11 US-09-825-517A-47 Sequence 47, Appl  
18 94 91.3 16 11 US-09-825-517A-57 Sequence 57, Appl  
19 94 91.3 16 11 US-09-825-517A-131 Sequence 131, Appl  
20 94 91.3 16 11 US-09-825-517A-134 Sequence 134, Appl  
21 93 90.3 16 11 US-09-825-517A-37 Sequence 37, Appl  
22 93 90.3 16 11 US-09-825-517A-41 Sequence 41, Appl  
23 93 90.3 16 11 US-09-825-517A-53 Sequence 53, Appl  
24 93 90.3 16 11 US-09-825-517A-73 Sequence 73, Appl  
25 93 90.3 16 11 US-09-825-517A-77 Sequence 77, Appl  
26 93 90.3 16 11 US-09-825-517A-81 Sequence 81, Appl  
27 93 90.3 16 11 US-09-825-517A-83 Sequence 83, Appl  
28 93 90.3 16 11 US-09-825-517A-136 Sequence 136, Appl  
29 92 89.3 16 11 US-09-825-517A-69 Sequence 69, Appl  
30 92 89.3 16 11 US-09-825-517A-84 Sequence 84, Appl  
31 91 88.3 16 11 US-09-825-517A-43 Sequence 43, Appl  
32 91 88.3 16 11 US-09-825-517A-50 Sequence 50, Appl  
33 91 88.3 16 11 US-09-825-517A-98 Sequence 98, Appl  
34 91 88.3 16 11 US-09-825-517A-119 Sequence 119, Appl  
35 91 88.3 16 11 US-09-825-517A-128 Sequence 128, Appl  
36 90 87.4 16 11 US-09-825-517A-64 Sequence 64, Appl  
37 89 86.4 16 11 US-09-825-517A-40 Sequence 40, Appl  
38 89 86.4 16 11 US-09-825-517A-71 Sequence 71, Appl  
39 89 86.4 16 11 US-09-825-517A-108 Sequence 108, Appl  
40 88 85.4 16 11 US-09-825-517A-61 Sequence 61, Appl  
41 88 85.4 16 11 US-09-825-517A-66 Sequence 66, Appl  
42 88 85.4 16 11 US-09-825-517A-79 Sequence 79, Appl  
43 88 85.4 16 11 US-09-825-517A-89 Sequence 89, Appl  
44 88 85.4 16 11 US-09-825-517A-92 Sequence 92, Appl  
45 88 85.4 16 11 US-09-825-517A-99 Sequence 99, Appl

## ALIGNMENTS

RESULT 1  
US-09-825-517A-45  
; Sequence 45, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 45  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-45

Query Match 100.0%; Score 103; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 8.9e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDIR 16  
|||||  
Db 1 DWICNLFKNQWFCDIR 16

RESULT 2  
US-09-825-517A-121  
; Sequence 121, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

Query Match          100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 8.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDIR 16
Db 1 DWICNLFKNQWFCDIR 16

RESULT 3
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          94.2%; Score 97; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.2e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDIR 16
Db 1 DWICNLFKNQWFCDVQ 16

RESULT 4
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWICNLFKNQWFCDV 15

RESULT 5
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWICNLFKNQWFCDV 15

RESULT 6
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 7
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 8.5e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15
Db 1 DWVCNLFKNQWFCDV 15
```

RESULT 11  
 US-09-825-517A-38  
 ; Sequence 38, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 38  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 US-09-825-517A-38

Query Match 92.2%; Score 95; DB 11; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 1.2e-06;  
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15  
 ||:|||||  
 Db 1 DWMCNLFKNQWFCDL 15

RESULT 12  
 US-09-825-517A-48  
 ; Sequence 48, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 48  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 US-09-825-517A-48

Query Match 92.2%; Score 95; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.2e-06;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15  
 ||:|||||  
 Db 1 DWMCNLFKNQWFCDL 15

RESULT 13  
 US-09-825-517A-132  
 ; Sequence 132, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 132  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-132

Query Match 92.2%; Score 95; DB 11; Length 16;  
 Best Local Similarity 81.2%; Pred. No. 1.2e-06;  
 Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDIR 16  
 ||:|||||  
 Db 1 DWMCNLFKNQWFCDVQ 16

RESULT 14  
 US-09-825-517A-145  
 ; Sequence 145, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 145  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
 US-09-825-517A-145

Query Match 92.2%; Score 95; DB 11; Length 16;  
 Best Local Similarity 86.7%; Pred. No. 1.2e-06;  
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFCDI 15  
 ||:|||||  
 Db 1 DWMCNLFKNQWFCDL 15

RESULT 15  
 US-09-825-517A-39  
 ; Sequence 39, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03



```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-39
```

```
Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.6e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 DWICNLFKNQWFCD 14
        |||||
Db      1 DWICNLFKNQWFCD 14
```

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Search completed: September 8, 2004, 14:25:07
Job time : 44.3 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-121  
Perfect score: 103  
Sequence: 1 DWICNLFKNQWFCDIR 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PTCUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles!.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50	48.5	478	4	US-09-137-223A-2
2	48	46.6	215	3	US-09-131-028A-3
3	48	46.6	215	3	US-09-131-028A-13
4	45	43.7	612	4	US-09-252-931A-17516
5	44.5	43.2	181	3	US-09-029-213B-22
6	44	42.7	582	3	US-08-194-560-2
7	42	40.8	21	4	US-09-337-227C-27
8	42	40.8	21	4	US-09-723-251A-27
9	42	40.8	480	2	US-08-828-488-8
10	42	40.8	480	4	US-09-299-689A-8
11	42	40.8	480	4	US-09-702-705-336
12	42	40.8	480	4	US-09-736-457-336
13	42	40.8	480	4	US-09-614-124B-336
14	42	40.8	480	4	US-09-671-325-336
15	42	40.8	480	4	US-09-589-184-336
16	41.5	40.3	190	1	US-08-816-241-1
17	41.5	40.3	190	3	US-09-128-395-1
18	41	39.8	2474	4	US-08-265-967C-3
19	41	39.8	2474	4	US-08-305-790B-4
20	39	37.9	326	2	US-08-671-978A-7
21	39	37.9	604	4	US-09-391-104-30
22	39	37.9	607	3	US-09-000-041A-2
23	39	37.9	607	3	US-09-211-704A-10
24	39	37.9	1422	4	US-08-469-260A-82
25	39	37.9	1422	4	US-08-488-446-82
26	39	37.9	1422	4	US-08-467-344A-82
27	38.5	37.4	286	4	US-09-328-352-5022

```

28 38.5 37.4 670 4 US-09-587-811A-2 Sequence 2, Appli
29 38.5 37.4 989 2 US-08-070-301-14 Sequence 14, Appli
30 38 36.9 13 1 US-08-261-660A-33 Sequence 33, Appl
31 38 36.9 13 1 US-08-261-660A-42 Sequence 42, Appl
32 38 36.9 13 4 US-09-280-909A-33 Sequence 33, Appl
33 38 36.9 13 4 US-09-280-909A-42 Sequence 42, Appl
34 38 36.9 13 5 PCT-US94-06931-33 Sequence 33, Appl
35 38 36.9 13 5 PCT-US94-06931-42 Sequence 237, App
36 38 36.9 22 1 US-08-372-783-237 Sequence 42, Appl
37 38 36.9 22 1 US-08-261-660A-44 Sequence 44, Appl
38 36.9 22 3 US-09-119-263-237 Sequence 237, App
39 38 36.9 22 4 US-09-280-909A-44 Sequence 44, Appl
40 38 36.9 22 5 PCT-US94-06931-44 Sequence 44, Appl
41 38 36.9 22 5 PCT-US95-00498-237 Sequence 237, App
42 38 36.9 27 1 US-08-261-660A-22 Sequence 22, Appl
43 38 36.9 27 4 US-09-280-909A-22 Sequence 22, Appl
44 38 36.9 27 5 PCT-US94-06931-22 Sequence 22, Appl
45 38 36.9 32 1 US-08-157-141-1 Sequence 1, Appli

```

## ALIGNMENTS

```

RESULT 1
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

```

```

Query Match 48.5%; Score 50; DB 4; Length 478;
Best Local Similarity 37.5%; Pred. No. 12;
Matches 6; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

```

```

Oy 1 DWICNLFKNQWFCDIR 16
Db 322 EWLSSVYKQQWFAMLR 337

```

```

RESULT 2
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3

```

```
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3

Query Match      46.6%; Score 48; DB 3; Length 215;
Best Local Similarity 42.9%; Pred. No. 10;
Matches 6; Conservative 4; Mismatches 4; Indels 4; Gaps 0;

QY 2 WICNLFKNQWFCDI 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 3
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match      46.6%; Score 48; DB 3; Length 215;
Best Local Similarity 42.9%; Pred. No. 10;
Matches 6; Conservative 4; Mismatches 4; Indels 4; Gaps 0;

QY 2 WICNLFKNQWFCDI 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 4
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match      43.7%; Score 45; DB 4; Length 612;
Best Local Similarity 87.5%; Pred. No. 80;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 2 WICNLFKN 9
Db 54 WICNLFAN 61

RESULT 5
US-09-029-213B-22
; Sequence 22, Application US/09029213B
; Patent No. 6180098
; GENERAL INFORMATION:
; APPLICANT: CHRISTIAN, Peter D.
; TITLE OF INVENTION: RECOMBINANT HELICOVERPA BACULOVIRUSSES
; TITLE OF INVENTION: EXPRESSING HETEROLOGOUS DNA
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: McDermott, Will & Emery
; STREET: 600 13th Street, NW
; CITY: Washington
; STATE: District of Columbia
; COUNTRY: USA
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/029,213B
; FILING DATE: 31-AUG-1998
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph Hyosuk Kim
; REGISTRATION NUMBER: 41,425
; REFERENCE/DOCKET NUMBER: 50179-048
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-756-8000
; TELEFAX: 202-756-8087
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 181 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-029-213B-22

Query Match      43.2%; Score 44.5; DB 3; Length 181;
Best Local Similarity 30.8%; Pred. No. 27;
Matches 8; Conservative 2; Mismatches 5; Indels 11; Gaps 1;

QY 2 WIC-----NLFKNQWFCDIR 16
Db 115 WFCFSDIFKCHDENKLFKPKWKCDIK 140

RESULT 6
US-08-194-560-2
; Sequence 2, Application US/08194560
; Patent No. 6255062
; GENERAL INFORMATION:
; APPLICANT: Campbell, Judith L.
; APPLICANT: Budd, Martin E.
; TITLE OF INVENTION: B-Type DNA Polymerases
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/194,560
; FILING DATE: 14-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Trecartin, Richard F.
; REGISTRATION NUMBER: 31,801
; REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 582 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-194-560-2

Query Match 42.7%; Score 44; DB 3; Length 582;
Best Local Similarity 31.2%; Pred. No. 1.1e+02;
Matches 5; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFCDIR 16
Db 322 DWLCKMSRNECFTHLK 337

RESULT 7
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI07IP2.rev
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 38.5%; Pred. No. 6.9;
Matches 5; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFCD 14
Db 3 WVCRAGPLQWLCE 15

RESULT 8
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
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; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI07IP2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 38.5%; Pred. No. 6.9;
Matches 5; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 WICNLFKNQWFCD 14
Db 3 WVCRAGPLQWLCE 15

RESULT 9
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
```

SEQUENCE CHARACTERISTICS:  
LENGTH: 480 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 190283  
US-08-828-488-8

Query Match 40.8%; Score 42; DB 2; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC 14  
DB 400 DMACNFWGDEWFD 413

## RESULT 10

US-09-299-689A-8  
Sequence 8, Application US/09299689A  
Patent No. 6379913

## GENERAL INFORMATION:

APPLICANT: Bandman, Olga  
APPLICANT: Hawkins, Phillip R.  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Lal, Preeti  
APPLICANT: Goli, Surya K.

TITLE OF INVENTION: NOVEL HUMAN SERINE  
CARBOXYPEPTIDASE

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/299,689A

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/828,488

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0241 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 480 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GenBank

CLONE: 190283

US-09-299-689A-8

Query Match 40.8%; Score 42; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC 14

Db 400 DMACNFWGDEWFD 413

## RESULT 11

US-09-702-705-336

Sequence 336, Application US/09702705

Patent No. 6504010

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Bangur, Chaitanya S.

APPLICANT: Lodes, Michael A.

APPLICANT: Fanger, Gary

APPLICANT: Vedvick, Tom

APPLICANT: Carter, Darrick

APPLICANT: Retter, Marc

APPLICANT: Mannion, Jane

APPLICANT: Fan, Liqun

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

DIAGNOSIS OF LUNG CANCER

FILE REFERENCE: 210121.478C14

CURRENT APPLICATION NUMBER: US/09/702,705

CURRENT FILING DATE: 2000-10-30

NUMBER OF SEQ ID NOS: 1833

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 336

LENGTH: 480

TYPE: PRT

ORGANISM: Homo sapiens

US-09-702-705-336

Query Match 40.8%; Score 42; DB 4; Length 480;

Best Local Similarity 42.9%; Pred. No. 1.7e+02;

Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC 14

Db 400 DMACNFWGDEWFD 413

## RESULT 12

US-09-736-457-336

Sequence 336, Application US/09736457

Patent No. 6509448

GENERAL INFORMATION:

APPLICANT: Wang, Tongtong

APPLICANT: Bangur, Chaitanya S.

APPLICANT: Lodes, Michael A.

APPLICANT: Fanger, Gary

APPLICANT: Vedvick, Tom

APPLICANT: Carter, Darrick

APPLICANT: Retter, Marc

APPLICANT: Mannion, Jane

APPLICANT: Fan, Liqun

APPLICANT: Wang, AiJun

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

DIAGNOSIS OF LUNG CANCER

FILE REFERENCE: 210121.478C15

CURRENT APPLICATION NUMBER: US/09/736,457

CURRENT FILING DATE: 2000-12-13

NUMBER OF SEQ ID NOS: 1864

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 336

LENGTH: 480

TYPE: PRT

ORGANISM: Homo sapiens

US-09-736-457-336

Query Match 40.8%; Score 42; DB 4; Length 480;

Best Local Similarity 42.9%; Pred. No. 1.7e+02;

Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWICNLFKNQWFC 14

Db 400 DMACNFMGDEWFVD 413

## RESULT 13

US-09-614-124B-336  
; Sequence 336, Application US/09614124B  
; Patent No. 6630574  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C9  
; CURRENT APPLICATION NUMBER: US/09/614,124B  
; CURRENT FILING DATE: 2001-07-11  
; NUMBER OF SEQ ID NOS: 1668  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-614-124B-336

Query Match 40.8%; Score 42; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFC D 14  
Db 400 DMACNFMGDEWFVD 413

## RESULT 14

US-09-671-325-336  
; Sequence 336, Application US/09671325  
; Patent No. 6667154  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.478C12  
; CURRENT APPLICATION NUMBER: US/09/671,325  
; CURRENT FILING DATE: 2000-09-26  
; NUMBER OF SEQ ID NOS: 1825  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-671-325-336

Query Match 40.8%; Score 42; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFC D 14  
Db 400 DMACNFMGDEWFVD 413

## RESULT 15

US-09-589-184-336  
; Sequence 336, Application US/09589184  
; Patent No. 6686447  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND  
; FILE REFERENCE: 210121.478C8  
; CURRENT APPLICATION NUMBER: US/09/589,184  
; CURRENT FILING DATE: 2000-06-05  
; NUMBER OF SEQ ID NOS: 827  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 336  
; LENGTH: 480  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-589-184-336

Query Match 40.8%; Score 42; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.7e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWICNLFKNQWFC D 14  
Db 400 DMACNFMGDEWFVD 413

Search completed: September 8, 2004, 12:58:35  
Job time : 12.2 secs





GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-120

Perfect score: 106

Sequence: 1 DWVCNLFKNQWFCDDVH 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
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18: /cgn2\_6/ptodata/1/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	106	100.0	16	11	US-09-825-517A-120
2	98	92.5	16	11	US-09-825-517A-42
3	98	92.5	16	11	US-09-825-517A-52
4	98	92.5	16	11	US-09-825-517A-58
5	98	92.5	16	11	US-09-825-517A-62
6	98	92.5	16	11	US-09-825-517A-74
7	98	92.5	16	11	US-09-825-517A-124
8	98	92.5	16	11	US-09-825-517A-129
9	97	91.5	16	11	US-09-825-517A-64
10	96	90.6	16	11	US-09-825-517A-45
11	96	90.6	16	11	US-09-825-517A-121
12	95	89.6	16	11	US-09-825-517A-38
13	95	89.6	16	11	US-09-825-517A-46
14	95	89.6	16	11	US-09-825-517A-84
15	95	89.6	16	11	US-09-825-517A-132

16	95	89.6	16	11	US-09-825-517A-145	Sequence 145, App
17	94	88.7	16	11	US-09-825-517A-48	Sequence 48, Appl
18	94	88.7	16	11	US-09-825-517A-53	Sequence 53, Appl
19	94	88.7	16	11	US-09-825-517A-73	Sequence 73, Appl
20	94	88.7	16	11	US-09-825-517A-77	Sequence 77, Appl
21	94	88.7	16	11	US-09-825-517A-81	Sequence 81, Appl
22	94	88.7	16	11	US-09-825-517A-83	Sequence 83, Appl
23	94	88.7	16	11	US-09-825-517A-136	Sequence 136, App
24	93	87.7	16	11	US-09-825-517A-39	Sequence 39, Appl
25	93	87.7	16	11	US-09-825-517A-47	Sequence 47, Appl
26	93	87.7	16	11	US-09-825-517A-50	Sequence 50, Appl
27	93	87.7	16	11	US-09-825-517A-57	Sequence 57, Appl
28	93	87.7	16	11	US-09-825-517A-69	Sequence 69, Appl
29	93	87.7	16	11	US-09-825-517A-89	Sequence 89, Appl
30	93	87.7	16	11	US-09-825-517A-119	Sequence 119, App
31	93	87.7	16	11	US-09-825-517A-128	Sequence 128, App
32	93	87.7	16	11	US-09-825-517A-131	Sequence 131, App
33	93	87.7	16	11	US-09-825-517A-134	Sequence 134, App
34	92	86.8	16	11	US-09-825-517A-37	Sequence 37, Appl
35	91	85.8	16	11	US-09-825-517A-41	Sequence 41, Appl
36	91	85.8	16	11	US-09-825-517A-43	Sequence 43, Appl
37	90	84.9	16	11	US-09-825-517A-98	Sequence 98, Appl
38	89	84.0	16	11	US-09-825-517A-61	Sequence 61, Appl
39	89	84.0	16	11	US-09-825-517A-66	Sequence 66, Appl
40	89	84.0	16	11	US-09-825-517A-99	Sequence 99, Appl
41	88	83.0	16	11	US-09-825-517A-40	Sequence 40, Appl
42	88	83.0	16	11	US-09-825-517A-71	Sequence 71, Appl
43	88	83.0	16	11	US-09-825-517A-108	Sequence 108, App
44	87	82.1	16	11	US-09-825-517A-79	Sequence 79, Appl
45	87	82.1	16	11	US-09-825-517A-92	Sequence 92, Appl

#### ALIGNMENTS

RESULT 1  
US-09-825-517A-120  
; Sequence 120, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 120  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-120

Query Match 100.0%; Score 106; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 2.7e-08;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDVH 16  
|||||  
Db 1 DWVCNLFKNQWFCDDVH 16

RESULT 2  
US-09-825-517A-42  
; Sequence 42, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 3
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 4
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 5
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 6
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 7
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          92.5%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-64
; Sequence 64, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 64
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-64

Query Match          91.5%; Score 97; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.1e-07;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDVH 16
Db 1 DWICNLFKNQWFCEAH 16

RESULT 10
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45

Query Match          90.6%; Score 96; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 7e-07;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDV 15
Db 1 DWICNLFKNQWFCDI 15
```

RESULT 11  
US-09-825-517A-121  
; Sequence 121, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 121  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-121  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue

Query Match 90.6%; Score 96; DB 11; Length 16;  
Best Local Similarity 86.7%; Pred. No. 7e-07;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 15  
Db 1 DWICNLFKNQWFCDDI 15

RESULT 12  
US-09-825-517A-38  
; Sequence 38, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 38  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-38

Query Match 89.6%; Score 95; DB 11; Length 16;  
Best Local Similarity 93.3%; Pred. No. 9.7e-07;  
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 15  
Db 1 DWVCNLFKNQWFCDDI 15

RESULT 13  
US-09-825-517A-46  
; Sequence 46, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 46  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-46

Query Match 89.6%; Score 95; DB 11; Length 16;  
Best Local Similarity 93.3%; Pred. No. 9.7e-07;  
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDV 15  
Db 1 DWVCNLFKNQWFCDDV 15

RESULT 14  
US-09-825-517A-84  
; Sequence 84, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 84  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-84

Query Match 89.6%; Score 95; DB 11; Length 16;  
Best Local Similarity 87.5%; Pred. No. 9.7e-07;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDVH 16  
Db 1 DWVCNLFKNQWFCDDVY 16

RESULT 15  
US-09-825-517A-132  
; Sequence 132, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 132
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-132
```

```
Query Match      89.6%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 9.7e-07;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DWVCNLFKNQWFCDV 15
      ||:|||||
Db      1 DWMCNLFKNQWFCDV 15
```

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Search completed: September 8, 2004, 14:25:07
Job time : 44.3 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-120  
Perfect score: 106  
Sequence: 1 DWVCLNLFKNWFCVDV 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	45.3	215	3	US-09-131-028A-3
2	48	45.3	215	3	US-09-131-028A-13
3	45	42.5	478	4	US-09-137-223A-2
4	44	41.5	612	4	US-09-252-391A-17516
5	43	40.6	21	4	US-09-337-227C-27
6	43	40.6	21	4	US-09-723-251A-27
7	43	40.6	480	2	US-08-828-488-8
8	43	40.6	480	4	US-09-299-689A-8
9	43	40.6	480	4	US-09-702-705-336
10	43	40.6	480	4	US-09-736-457-336
11	43	40.6	480	4	US-09-614-124B-336
12	43	40.6	480	4	US-09-671-325-336
13	43	40.6	480	4	US-09-589-184-336
14	42.5	40.1	190	1	US-08-816-241-1
15	42.5	40.1	190	3	US-09-128-395-1
16	42	39.6	932	4	US-09-328-352-7453
17	41	38.7	132	4	US-08-311-731A-361
18	41	38.7	582	3	US-08-194-560-2
19	41	38.7	2474	4	US-08-265-967C-3
20	41	38.7	2474	4	US-08-305-790B-4
21	40.5	38.2	181	3	US-09-029-213B-22
22	39.5	37.3	286	4	US-09-328-352-5022
23	39	36.8	80	4	US-09-673-395A-447
24	39	36.8	131	2	US-08-834-655-9
25	39	36.8	131	3	US-08-834-033A-10
26	39	36.8	131	3	US-09-363-574-9
27	39	36.8	131	4	US-09-363-526-9

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28 39 36.8 219 4 US-09-439-261-20 Sequence 20, Appl
29 39 36.8 219 4 US-09-227-613-19 Sequence 19, Appl
30 39 36.8 227 4 US-08-213-419B-13 Sequence 13, Appl
31 39 36.8 287 4 US-09-439-261-13 Sequence 13, Appl
32 39 36.8 287 4 US-09-227-613-14 Sequence 14, Appl
33 39 36.8 288 4 US-09-439-261-14 Sequence 14, Appl
34 39 36.8 288 4 US-09-439-261-16 Sequence 16, Appl
35 39 36.8 288 4 US-09-439-261-18 Sequence 18, Appl
36 39 36.8 288 4 US-09-227-613-15 Sequence 15, Appl
37 39 36.8 444 4 US-09-439-261-11 Sequence 11, Appl
38 39 36.8 444 4 US-09-439-261-43 Sequence 43, Appl
39 39 36.8 444 4 US-09-227-613-12 Sequence 12, Appl
40 39 36.8 444 4 US-09-048-888-3 Sequence 42, Appl
41 39 36.8 444 4 US-09-439-261-39 Sequence 39, Appl
42 39 36.8 445 4 US-09-439-261-15 Sequence 45, Appl
43 39 36.8 445 4 US-09-439-261-45 Sequence 45, Appl
44 39 36.8 3033 1 US-07-925-695-8 Sequence 8, Appl
45 39 36.8 3033 1 US-07-925-695-9 Sequence 9, Appl

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## ALIGNMENTS

```

RESULT 1
; US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3
Query Match 45.3%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 WVCNLFKNWFCVDV 15
DB 12 WFCGLRGNEFFCEV 25

RESULT 2
; US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match      45.3%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy      2 WVCNLFKNQWPCDV 15
Db      12 WFCGLRGNEFFCEV 25

RESULT 3
US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: ZGCL-1
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match      42.5%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 62;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy      1 DWVCNLFKNQWF 12
Db      322 EWLSSVYKQWF 333

RESULT 4
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match      41.5%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match      45.3%; Score 48; DB 3; Length 215;
Best Local Similarity 50.0%; Pred. No. 10;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy      2 WVCNLFKN 9
Db      54 WICNLFAN 61

RESULT 5
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match      40.6%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 4.9;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy      2 WVCNLFKNQWPCD 14
Db      3 WVCRAQLQWLCE 15

RESULT 6
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match      40.6%; Score 43; DB 4; Length 21;
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Best Local Similarity 46.2%; Pred. No. 4.9;  
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFC 14  
Db 3 WVCRAGPLQWLCE 15

RESULT 7  
US-08-828-488-8  
; Sequence 8, Application US/08828488  
; Patent No. 5925521  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/828,488  
; FILING DATE: Filed Herewith  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0241 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
US-08-828-488-8

Query Match 40.6%; Score 43; DB 2; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.2e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFC 14  
Db 400 DMACNFMGDEWFD 413

RESULT 8  
US-09-299-689A-8  
; Sequence 8, Application US/09299689A  
; Patent No. 6379913  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hawkins, Phillip R.

; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL HUMAN SERINE  
; CARBOXYPEPTIDASE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/299,689A  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/828,488  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0241 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 480 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 190283  
US-09-299-689A-8

Query Match 40.6%; Score 43; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.2e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFC 14  
Db 400 DMACNFMGDEWFD 413

RESULT 9  
US-09-702-705-336  
; Sequence 336, Application US/09702705  
; Patent No. 6504010  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Tongtong  
; APPLICANT: Bangur, Chaitanya S.  
; APPLICANT: Lodes, Michael A.  
; APPLICANT: Fanger, Gary  
; APPLICANT: Vedvick, Tom  
; APPLICANT: Carter, Darrick  
; APPLICANT: Retter, Marc  
; APPLICANT: Mannion, Jane  
; APPLICANT: Fan, Liqun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; DIAGNOSIS OF LUNG CANCER  
; FILE REFERENCE: 210121.478C14  
; CURRENT APPLICATION NUMBER: US/09/702,705  
; CURRENT FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 1833  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 336

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; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 10
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736.457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 11
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614.124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 12
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671.325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      40.6%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.2e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWPCD 14
Db 400 DMACNFMGDEWFDV 413

RESULT 13
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589.184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-589-184-336

Query Match 40.6%; Score 43; DB 4; Length 480;  
Best Local Similarity 42.9%; Pred. No. 1.2e+02;  
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFC 14  
| | | | | : | | | |  
Db 400 DMACNFMGDEWFD 413

## RESULT 14

US-08-816-241-1  
; Sequence 1, Application US/08816241  
; Patent No. 5804185  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Goli, Surya K.  
; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/816,241  
; FILING DATE: Filed Herewith  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0239 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 190 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PROSTUT09  
; CLONE: 1646823

US-08-816-241-1

Query Match 40.1%; Score 42.5; DB 1; Length 190;  
Best Local Similarity 28.6%; Pred. No. 55;  
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY 2 WVCNLFKNQ-----WFC 14  
| | | | | : | | | |  
Db 50 WKTGVFRNQVDSETHCHAEFCFLSWFC 77

## RESULT 15

US-09-128-395-1  
; Sequence 1, Application US/09128395  
; Patent No. 6087108  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Goli, Surya K.

; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/128,395  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/816,241  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0239 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 190 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: PROSTUT09  
; CLONE: 1646823

US-09-128-395-1

Query Match 40.1%; Score 42.5; DB 3; Length 190;  
Best Local Similarity 28.6%; Pred. No. 55;  
Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY 2 WVCNLFKNQ-----WFC 14  
| | | | | : | | | |  
Db 50 WKTGVFRNQVDSETHCHAEFCFLSWFC 77

Search completed: September 8, 2004, 12:58:35  
Job time : 13.2 secs



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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:53:30 ; Search time 44.3 Seconds  
(without alignments)  
113.793 Million cell updates/sec

Title: US-09-825-517A-119

Perfect score: 109  
Sequence: 1 DWVCNLFKNQWFCNVW 16

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubaa/US06\_PUBCOMB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	109	100.0	16	11	US-09-825-517A-119
2	104	95.4	16	11	US-09-825-517A-58
3	99	90.8	16	11	US-09-825-517A-57
4	99	90.8	16	11	US-09-825-517A-134
5	98	89.9	16	11	US-09-825-517A-50
6	98	89.9	16	11	US-09-825-517A-53
7	98	89.9	16	11	US-09-825-517A-128
8	94	86.2	16	11	US-09-825-517A-61
9	93	85.3	16	11	US-09-825-517A-42
10	93	85.3	16	11	US-09-825-517A-52
11	93	85.3	16	11	US-09-825-517A-62
12	93	85.3	16	11	US-09-825-517A-71
13	93	85.3	16	11	US-09-825-517A-74
14	93	85.3	16	11	US-09-825-517A-108
15	93	85.3	16	11	US-09-825-517A-120

16	93	85.3	16	11	US-09-825-517A-124	Sequence 124, App
17	93	85.3	16	11	US-09-825-517A-129	Sequence 129, App
18	91	83.5	16	11	US-09-825-517A-41	Sequence 41, Appl
19	91	83.5	16	11	US-09-825-517A-45	Sequence 45, Appl
20	91	83.5	16	11	US-09-825-517A-121	Sequence 121, App
21	90	82.6	16	11	US-09-825-517A-38	Sequence 38, Appl
22	90	82.6	16	11	US-09-825-517A-46	Sequence 46, Appl
23	90	82.6	16	11	US-09-825-517A-84	Sequence 84, Appl
24	90	82.6	16	11	US-09-825-517A-132	Sequence 132, App
25	90	82.6	16	11	US-09-825-517A-145	Sequence 145, App
26	89	81.7	16	11	US-09-825-517A-4	Sequence 4, Appl
27	89	81.7	16	11	US-09-825-517A-48	Sequence 48, Appl
28	89	81.7	16	11	US-09-825-517A-73	Sequence 73, Appl
29	89	81.7	16	11	US-09-825-517A-77	Sequence 77, Appl
30	89	81.7	16	11	US-09-825-517A-81	Sequence 81, Appl
31	89	81.7	16	11	US-09-825-517A-83	Sequence 83, Appl
32	89	81.7	16	11	US-09-825-517A-136	Sequence 136, App
33	89	81.7	27	11	US-09-825-517A-24	Sequence 24, Appl
34	88	80.7	16	11	US-09-825-517A-39	Sequence 39, Appl
35	88	80.7	16	11	US-09-825-517A-47	Sequence 47, Appl
36	88	80.7	16	11	US-09-825-517A-69	Sequence 69, Appl
37	88	80.7	16	11	US-09-825-517A-131	Sequence 131, App
38	87	79.8	16	11	US-09-825-517A-37	Sequence 37, Appl
39	87	79.8	16	11	US-09-825-517A-59	Sequence 59, Appl
40	87	79.8	16	11	US-09-825-517A-64	Sequence 64, Appl
41	87	79.8	16	11	US-09-825-517A-79	Sequence 79, Appl
42	87	79.8	16	11	US-09-825-517A-89	Sequence 89, Appl
43	87	79.8	16	11	US-09-825-517A-92	Sequence 92, Appl
44	86	78.9	16	11	US-09-825-517A-43	Sequence 43, Appl
45	86	78.9	16	11	US-09-825-517A-127	Sequence 127, App

## ALIGNMENTS

RESULT 1  
US-09-825-517A-119  
; Sequence 119, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; TITLE OF INVENTION: ANTIGEN (CEA)  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 119  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-119

Query Match 100.0%; Score 109; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 1.2e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCNVW 16  
| | | | | | | | | | | | | | | |  
Db 1 DWVCNLFKNQWFCNVW 16

RESULT 2  
US-09-825-517A-58  
; Sequence 58, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 58  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-58

Query Match 95.4%; Score 104; DB 11; Length 16;  
Best Local Similarity 93.8%; Pred. No. 5.5e-07;  
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVW 16  
|||:|||||:|  
Db 1 DWVCNLFKNQWFCDVW 16

RESULT 3  
US-09-825-517A-57  
; Sequence 57, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 57  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-57

Query Match 90.8%; Score 99; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 2.4e-06;  
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVW 16  
|||:|||||:|  
Db 1 DWVCNLFKNQWFCDAW 16

RESULT 4  
US-09-825-517A-134  
; Sequence 134, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 134  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue  
US-09-825-517A-134

Query Match 90.8%; Score 99; DB 11; Length 16;  
Best Local Similarity 81.2%; Pred. No. 2.4e-06;  
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNVW 16  
|||:|||||:|  
Db 1 DWVCNLFKNQWFCDAW 16

RESULT 5  
US-09-825-517A-50  
; Sequence 50, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 50  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: CEA binding polypeptide  
US-09-825-517A-50

Query Match 89.9%; Score 98; DB 11; Length 16;  
Best Local Similarity 100.0%; Pred. No. 3.3e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15  
|||:|||||:|  
Db 1 DWVCNLFKNQWFCNV 15

RESULT 6  
US-09-825-517A-53  
; Sequence 53, Application US/09825517A  
; Publication No. US20030203415A1  
; GENERAL INFORMATION:  
; APPLICANT: Rondon, Issac J  
; APPLICANT: Ladner, Robert C  
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
; CURRENT APPLICATION NUMBER: US/09/825,517A  
; CURRENT FILING DATE: 2003-03-24  
; PRIOR APPLICATION NUMBER: US 09/541,345  
; PRIOR FILING DATE: 2000-04-03  
; NUMBER OF SEQ ID NOS: 151  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 53  
; LENGTH: 16  
; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53

Query Match      89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.3e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 16
Db 1 DWVCNLFKNQWFCDKW 16

RESULT 7
US-09-825-517A-128
; Sequence 128, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-128

Query Match      89.9%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-06;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
Db 1 DWVCNLFKNQWFCNV 15

RESULT 8
US-09-825-517A-61
; Sequence 61, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-61

Query Match      86.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.1e-05;
```

```
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14
Db 1 DWVCNLFKNQWFCN 14

RESULT 9
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match      85.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.5e-05;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52

Query Match      85.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.5e-05;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15
Db 1 DWVCNLFKNQWFCDV 15
```

## RESULT 11

US-09-825-517A-62  
 ; Sequence 62, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 62  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-62

Query Match 85.3%; Score 93; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.5e-05;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15  
 |||||:|  
 Db 1 DWVCNLFKNQWFCDV 15

## RESULT 12

US-09-825-517A-71  
 ; Sequence 71, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 71  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-71

Query Match 85.3%; Score 93; DB 11; Length 16;  
 Best Local Similarity 92.9%; Pred. No. 1.5e-05;  
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14  
 |||||:|  
 Db 1 DWVCNLFKNQWFCN 14

## RESULT 13

US-09-825-517A-74  
 ; Sequence 74, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 74  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-74

Query Match 85.3%; Score 93; DB 11; Length 16;  
 Best Local Similarity 93.3%; Pred. No. 1.5e-05;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCNV 15  
 |||||:|  
 Db 1 DWVCNLFKNQWFCDV 15

## RESULT 14

US-09-825-517A-108  
 ; Sequence 108, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 151  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 108  
 ; LENGTH: 16  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: CEA binding polypeptide  
 ; US-09-825-517A-108

Query Match 85.3%; Score 93; DB 11; Length 16;  
 Best Local Similarity 92.9%; Pred. No. 1.5e-05;  
 Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCN 14  
 |||||:|  
 Db 1 DWVCNLFKNQWFCN 14

## RESULT 15

US-09-825-517A-120  
 ; Sequence 120, Application US/09825517A  
 ; Publication No. US20030203415A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rondon, Issac J  
 ; APPLICANT: Ladner, Robert C  
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC  
 ; TITLE OF INVENTION: ANTIGEN (CEA)  
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)  
 ; CURRENT APPLICATION NUMBER: US/09/825,517A  
 ; CURRENT FILING DATE: 2003-03-24  
 ; PRIOR APPLICATION NUMBER: US 09/541,345  
 ; PRIOR FILING DATE: 2000-04-03



```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120
```

```
Query Match      85.3%   Score 93;   DB 11;   Length 16;
Best Local Similarity 93.3%   Pred No 1.5e-05;
Matches 14;   Conservative 1;   Mismatches 0;   Indels 0;   Gaps 0;
```

```
QY      1 DWVCNLFKNQWFCNV 15
        |||||
Db      1 DWVCNLFKNQWFCDV 15
```

```
Search completed: September 8, 2004, 14:25:07
Job time : 45.3 secs
```



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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:51:54 ; Search time 12.2 Seconds  
(without alignments)  
67.706 Million cell updates/sec

Title: US-09-825-517A-119

Perfect score: 109

Sequence: 1 DWVCNLFKNQWFCNV 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/2/iaa/5A COMB.pgp:\*
- 2: /cgn2\_6/ptodata/2/iaa/5B COMB.pgp:\*
- 3: /cgn2\_6/ptodata/2/iaa/6A COMB.pgp:\*
- 4: /cgn2\_6/ptodata/2/iaa/6B COMB.pgp:\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS COMB.pgp:\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pgp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	42.2	215	3	US-09-131-028A-3
2	46	42.2	215	3	US-09-131-028A-13
3	45	41.3	478	4	US-09-137-223A-2
4	44	40.4	498	1	US-08-357-598-9
5	44	40.4	498	2	US-09-003-289-9
6	44	40.4	498	5	PCT-US95-16435-9
7	44	40.4	612	4	US-09-252-991A-17516
8	43	39.4	326	2	US-08-671-978A-7
9	42	38.5	582	3	US-08-194-560-2
10	42	38.5	2474	4	US-08-265-967C-3
11	42	38.5	2474	4	US-08-305-790B-4
12	41.5	38.1	113	4	US-09-530-903C-4
13	41	37.6	21	4	US-09-337-227C-27
14	41	37.6	21	4	US-09-723-251A-27
15	41	37.6	977	3	US-08-335-844A-22
16	41	37.6	977	4	US-09-129-366-22
17	40	36.7	70	4	US-09-328-352-7525
18	40	36.7	765	4	US-09-252-991A-30111
19	40	36.7	1025	2	US-08-530-792D-23
20	40	36.7	1026	2	US-08-530-792D-22
21	39.5	36.2	23	2	US-08-493-235-30
22	39.5	36.2	220	4	US-09-198-452A-941
23	39.5	36.2	479	5	PCT-US91-02166-10
24	39.5	36.2	479	5	PCT-US91-02250-1
25	39.5	36.2	484	2	US-08-037-816A-22
26	39.5	36.2	484	2	US-08-530-146-22
27	39.5	36.2	491	2	US-08-037-816A-18

28	39.5	36.2	491	2	US-08-530-146-18	Sequence 18, Appli
29	39.5	36.2	498	2	US-07-916-098A-4	Sequence 4, Appli
30	39.5	36.2	511	4	US-09-796-202-17	Sequence 17, Appli
31	39.5	36.2	516	4	US-08-817-441-48	Sequence 48, Appli
32	39.5	36.2	519	1	US-08-589-446-8	Sequence 8, Appli
33	39.5	36.2	519	1	US-08-444-882-8	Sequence 8, Appli
34	39.5	36.2	519	2	US-08-389-459A-8	Sequence 8, Appli
35	39.5	36.2	519	3	US-08-987-867A-8	Sequence 8, Appli
36	39.5	36.2	520	2	US-08-037-816A-14	Sequence 14, Appli
37	39.5	36.2	520	2	US-08-037-816A-26	Sequence 26, Appli
38	39.5	36.2	520	2	US-08-530-146-14	Sequence 14, Appli
39	39.5	36.2	520	2	US-08-530-146-26	Sequence 26, Appli
40	39.5	36.2	615	3	US-09-257-490-11	Sequence 11, Appli
41	39.5	36.2	617	4	US-08-679-493A-77	Sequence 77, Appli
42	39.5	36.2	826	1	US-08-375-510-2	Sequence 2, Appli
43	39.5	36.2	826	2	US-08-487-657-2	Sequence 2, Appli
44	39.5	36.2	839	3	US-08-472-240A-10	Sequence 10, Appli
45	39.5	36.2	854	4	US-09-309-572-23	Sequence 23, Appli

#### ALIGNMENTS

RESULT 1  
US-09-131-028A-3  
; Sequence 3, Application US/09131028A  
; Patent No. 6287866  
; GENERAL INFORMATION:  
; APPLICANT: Abbott Laboratories  
; APPLICANT: Mukerji, Pradip  
; APPLICANT: Lemmel, Steven A.  
; APPLICANT: Leonard, Amanda Eun-Yeong  
; APPLICANT: Chaudhary, Sunita  
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS  
; FILE REFERENCE: 6004.US.P1  
; CURRENT APPLICATION NUMBER: US/09/131,028A  
; CURRENT FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: US 08/064,440  
; PRIOR FILING DATE: 1993-05-21  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 215  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-131-028A-3

Query Match 42.2%; Score 46; DB 3; Length 215;  
Best Local Similarity 50.0%; Pred. No. 35;  
Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0;  
Oy 2 WVCNLFKNQWFCNV 15  
Db 12 WFCGLRGNEFFCEV 25

RESULT 2  
US-09-131-028A-13  
; Sequence 13, Application US/09131028A  
; Patent No. 6287866  
; GENERAL INFORMATION:  
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; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS  
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